

1 July 2012

Second Quarter 2012 Groundwater Monitoring Report

**Former Powerine Refinery
12345 Lakeland Road, Santa Fe Springs, CA**

**SLIC No. 0318, ID No. 2040071
CAO 97-118**

Prepared on Behalf of

**Isola Law Group, LLP
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Prepared for

**Regional Water Quality Control Board
Los Angeles Region**

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1.0 INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Second Quarter 2012 Groundwater Monitoring Report* for the former Powerine Refinery property located at 12345 Lakeland Road in Santa Fe Springs, California (Site; **Figure 1**).

1.1 Purpose

The objective of the quarterly groundwater monitoring is to evaluate groundwater quality beneath the site and adjacent properties (**Figure 2**) and to provide regular updates to the Regional Water Quality Control Board, Los Angeles Region (RWQCB). This report presents the groundwater monitoring activities performed between April 30, 2012 and May 18, 2012, in accordance with the RWQCB Cleanup and Abatement Order (CAO) No. 97-118.

1.2 Site Description and History

The Site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (**Figure 2**). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to a CAOs (No. 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1997 (Haley & Aldrich, 2005).

2.0 GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in February 2012. The following subsections summarize work completed during the second quarter 2012 monitoring event.

2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes the existing 59 wells, as listed in **Table I** and shown on **Figure 2**. These wells include:

- Twenty-two onsite groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Twenty-five downgradient offsite groundwater monitoring wells of which:
 - Four are located on the former Lakeland (aka "Coaster") property: MW-501A, MW-502, MW-503B, and MW-707; and
 - Twenty-one are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, MW-708, MW-709, MW-710, MW-711, MW-712, MW-713, MW-714, MW-715, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven offsite groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;
- Three offsite groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two onsite, deep, former water production wells identified as W-7 and W-8.

2.2 Groundwater Gauging

Murex inspected and measured the depth to groundwater in all 59 of the wells on April 30, 2012. During gauging, wells are also checked for the presence and thickness of free-phase petroleum hydrocarbons (FPPH) product. Of those, 19 wells were dry, and 2 contained free-phase petroleum hydrocarbon (FPPH).

Table II summarizes the groundwater elevation and free product thickness measurements.

2.3 Free-Phase Petroleum Hydrocarbon (FPPH) Measurements

Wells that initially exhibit the presence of FPPH are purged until they become dry or until approximately 6 to 10 well volumes are evacuated. Thereafter, the wells are inspected for the return of FPPH and if present, its thickness is measured over longer and longer time intervals (in general 1 hour, 2 hours, 4 hours, 24 hours, 3 days, 7 days, and 10 days).

For wells in which FPPH does not return within the first day, groundwater is sampled for analysis.

Further discussion of the wells exhibiting free product is presented in Section 3.2.

2.4 Groundwater Purging

The groundwater monitoring wells that contained groundwater, with the exception of production wells W-7 and W-8, were purged via a dedicated vacuum stinger that was connected to a truck-mounted vacuum pump truck operated by Nieto & Sons. W-7 and W-8 are deep production wells and are sampled without purging water from them first. During purging, extracted groundwater volume and quality were recorded. The parameters measured during purging were flow rate, temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in **Table IV**. Purged groundwater was disposed of by Nieto & Sons at the wastewater treatment system in operation at the Site.

2.5 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected by disposable bailer from the wells and placed in sample containers and stored in pre-cooled ice chests and transported under proper chain-of-custody (COC) procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) #2250. All collected samples were analyzed for the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (USEPA) Method 8015M, and
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B.

Results of these analyses are summarized in **Table III** (Summary of VOCs, Oxygenates, TPH and Emergent Chemicals). Results of the field-measured parameters are shown in **Table IV**.

2.6 Quality Assurance/Quality Control

In accordance with the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

2.6.1 Trip Blanks

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

2.6.2 Duplicates

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells MW-704, MW-705, and MW-706. This represents a duplicate frequency equal to approximately 13% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples. The results of the duplicate analyses are shown in the results tables beside the original sample result.

2.6.3 Equipment Blanks

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

2.6.4 Laboratory QA/QC Program

Laboratory QA/QC reports were reviewed to confirm proper completion of data validation tests, including batch QC results, method blanks, laboratory control samples, matrix spikes, and duplicates. The results of lab QC tests were within acceptable limits.

3.0 RESULTS & DISCUSSION

This section presents the results of the second quarter 2012 groundwater monitoring event. As mentioned earlier in the report, well completion details are provided in **Table I**. Groundwater level measurements and groundwater elevations are summarized in **Table II**. Comprehensive analytical results, including historical and recent results, are compiled in **Tables III**. **Table IV** contains a summary of bio-attenuation and field-measured parameter readings.

Figure 3 shows the groundwater elevation measured at each monitoring well, as well as the overall gradient and direction of groundwater flow. **Figure 4** depicts the concentrations and estimated contour lines of TPHg measured in each well, and **Figure 5** shows similar concentrations and contour lines for benzene and MTBE.

Well measurement and groundwater sampling forms are attached as **Appendix A**. Laboratory reports and completed COCs are included in **Appendix B**.

The presentation of the chemical testing results in this report does not distinguish between site- and non-site-related constituents although there are indications of non-site-related contamination in groundwater, which is discussed further in Section 4.3.

3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (**Tables I and II**). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on **Figure 3**.

Based on groundwater level measurements obtained on April 30, 2012, first-encountered groundwater beneath the site vicinity ranges in elevation from 18.12 to 50.83 feet above mean sea level (ft-amsl). Wells W-7 and W-8 are production wells, with multiple screens situated deeper than 500 feet bgs. Their elevations were higher, between 57.97 and 72.35.

In general, groundwater elevations were similar to those measured in the first quarter 2012 monitoring event. Groundwater elevations had exhibited steady decreases for several years until the third quarter 2010, when they experienced a significant increase. The increase continued in the fourth quarter 2011 and has apparently leveled off. As a whole, the average change in groundwater elevation over all the wells measured was an

increase of approximately 0.49 feet from the first quarter 2012 sampling event. Appendix C includes hydrographs depicting the change in groundwater elevation over time in the A, B and C screened horizons, respectively.

The average horizontal groundwater gradient is approximately 0.007 foot per foot (ft/ft), as shown in **Figure 3**, which was similar to the previous monitoring period, and represents what is considered a moderately steep gradient. The groundwater flow direction originates from the northeast and turns south across the area of study. This flow direction is relatively consistent with those historically reported in previous investigations.

3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid or LNAPL, was detected in monitoring wells EW-1 and W-15A (**Table II**). Well W-15A exhibited measurable FPPH for the fourth time during this event. FPPH was measured at a thickness of 1.55 feet in EW-1 and 0.55 feet in W-15A. During previous monitoring events going back many years, FPPH was also historically detected in wells MW-101, MW-103, MW-104, MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-501, MW-502, MW-503, MW-503B, MW-504, MW-600, MW-600A, MW-601, MW-601A, W-3A. The majority of these wells are now dry.

3.3 Groundwater Analysis

Groundwater analytical results are summarized in **Tables III**, and laboratory reports and completed COCs are included in **Appendix B**.

3.3.1 TPHg

Second quarter 2012 TPHg results are presented in **Table III** and **Figure 4**. TPHg was detected in 34 out of the 39 wells sampled at concentrations ranging from .057 milligrams per liter (mg/L) in monitoring well W-7 to 2,100 mg/L in monitoring well W-15A.

Well W-10 exhibited the largest decrease among all the wells from 10 mg/L to 1 mg/L.

The most significant increase was observed in monitoring well MW-708, where TPHg concentrations rose from 18 mg/L in the first quarter 2012 to 57 mg/L in the second quarter 2012. Well W-7 has been non-detect (<50 µg/L) since the August 2010 sampling event, but exhibited an elevated TPH-g concentration of .057 mg/L in the second quarter 2012. One other significant increase in TPHg concentration was observed in well MW-503B, which rose to 11 mg/L in the second quarter, from 5.2 mg/L in the first quarter 2012. The most significant decreases in TPH-g were observed in wells MW-704, W-10, and W-11.

3.3.2 VOCs and Oxygenates

A summary of VOC and oxygenate analytical data for the second quarter 2012 is presented in **Table III**, along with historical data from previous monitoring events.

3.3.2.1 *Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)*

Benzene was detected in 26 samples from the 39 total wells sampled. Concentrations ranged from 0.64 µg/L in well W-15C to 3,900 µg/L in well W-15A (**Figure 5**) (24 of these wells contained benzene at concentrations exceeding the 1 µg/L California Maximum Contaminant Level (MCL) in drinking water). Benzene concentrations in the second quarter of 2012 were similar to concentrations observed during previous monitoring events.

Of the other BTEX compounds analyzed for, toluene was detected in samples from 14 wells at concentrations ranging from 0.67 µg/L in W-15C to 3,600 µg/L in W-15A. Toluene was detected above its California MCL (150 µg/L) in 5 wells this quarter.

Ethylbenzene was detected in the samples collected from 22 wells at concentrations ranging from 0.55 µg/L in MW-703 to 3,900 µg/L in W-15A. Ethylbenzene was detected at or above its California MCL (300 µg/L) in 6 wells this quarter.

Total xylenes, including the *ortho*, *meta*, and *para* isomers, were detected in samples from 21 wells at concentrations ranging from 1.2 µg/L in W-10 to 17,400 µg/L in W-15A. Xylene was detected above the California MCL (1,750 µg/L) in 4 wells this quarter.

3.3.2.2 *Methyl tert-Butyl Ether (MTBE)*

The oxygenate MTBE was detected in samples from 14 wells at concentrations ranging from 2.9 µg/L in W-14A to 940 µg/L in W-15A (**Figure 6**). The 13 µg/L drinking water MCL established for MTBE in California was exceeded in 9 wells.

3.3.2.3 *tert-Butyl Alcohol (TBA)*

TBA, another oxygenate and a byproduct of MTBE breakdown, was detected in 18 of the 39 sampled wells at concentrations ranging from 11 µg/L in well W-17C to 220 µg/L in well W-15A. The California Notification Level (formerly Action Level) and Response Level for Drinking Water for TBA is 12 µg/L. A total of 17 out of the 18 TBA detections exceeded this limit for this quarter.

3.3.2.4 Other VOCs

In addition to the aforementioned constituents of concern, several VOCs were detected in groundwater during this monitoring event. Some of these compounds, such as naphthalene, n-propylbenzene and trimethylbenzene, for instance, are related to petroleum hydrocarbon releases.

Conversely, also detected were chlorinated solvents, such as trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE) and cis- and trans-1,2-dichloroethene (cis-1,2-DCE and trans-1,2-DCE), among others, which we believe are the result of off-site contamination entering the Powerline well network. Chlorinated solvents were detected in the following wells this quarter: MW-104A, MW-107A, MW-503B, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, MW-707, MW-708, MW-710, MW-711, MW-712, MW-713, MW-715, W-1, W-7, W-9, W-11, W-12, W-14B, W-14C, W-15C, W-16A, W-16B, W-16C, and W-17A.

The most significant detections of chlorinated compounds are described as follows: to the southwest, in wells MW-710 and W-14B, PCE and TCE were detected between 8 and 82 µg/L.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

3.3.3 Biodegradation Parameters

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe^{3+})-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{3+} , sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{3+} reduction will begin if Fe^{3+} is present. Fe^{3+} concentrations will decrease, while Fe^{2+} concentrations will increase. After most Fe^{3+} is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

3.3.3.1 Field Measured Parameters

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 35 monitoring wells using an YSI 556 water quality meter (**Table IV**). The meter was inserted into grab water samples, collected from the vacuum truck intake during well purging.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 7.60 to 8.74 with a few exceptions, indicating a neutral to slightly alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.
- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration. The vacuum stinger method used to purge the wells introduces oxygen into the groundwater. Therefore, DO data is not representative of the actual oxygen content. It is likely very low in wells exhibiting higher TPH concentrations, since oxygen is the first compound used up in the biological degradation of petroleum.
- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Negative ORP values were observed in 28 of the 34 wells measured.

ORP values ranged from -273.6 mV in well MW-107A to 50.0 mV in Well W-16A. **Figure 7** illustrates iso-concentration contour lines for ORP.

Hydrogen sulfide (produced from the reduction of sulfate in groundwater, after oxygen is used up) was detected during purging of wells exhibiting elevated TPH concentrations and low or negative ORP values, which is consistent with our understanding of the conceptual site model, and indicate that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

3.3.4 QA/QC

Duplicate sample results are provided alongside their primary sample results in **Tables III**. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory.

Trip blank samples did not indicate the presence of VOCs, which indicates proper sample storage and confirms a lack of cross-contamination during transport.

Laboratory method blanks did not indicate the presence of VOCs, which indicates that laboratory detection equipment did not exhibit cross-contamination.

Laboratory control and laboratory spike samples exhibited results within acceptable limits, indicating no matrix interference and that the detection equipment was working properly.

4.0 SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former CENCO refinery in May 2012 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 59 wells and collecting samples from 39 of those wells for analysis of TPHg and VOCs.

4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.007 ft/ft was calculated for the first quarter groundwater monitoring event. This is consistent with historical gradient data for the site vicinity. Averaging all the wells exhibiting measurable groundwater, elevations have increased (although it dropped in select individual wells) by approximately 0.49 feet since the previous quarter. Groundwater flows from the northeast and turns due south across the area of study, which is consistent with historical measurements.

This was the fifth consecutive measurement period in which groundwater elevations increased on the whole, rather than decreased for several years. Most notably, wells MW-16B, MW-16C, MW-17B, and MW-17C exhibited very large increases since October 2010, which may indicate a decrease in pumping activities to the northeast. Deep-screened production wells W-7 and W-8 exhibited decreases in groundwater elevation this quarter.

4.2 Free-Phase Petroleum Hydrocarbons

Measureable free product was identified in two wells EW-1 and W-15A. These wells have exhibited FPPH in the past; although it first appeared in W-15A in 2011. The FPPH thickness measured in these three wells (1.55 and 0.57 feet, respectively) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex has conducted a study to compare the characteristics (i.e., "fingerprints") of FPPH samples taken from several of the monitoring wells, including wells that do not currently contain FPPH. Samples of FPPH were collected from wells W-11, MW-503B, MW-708, EW-1, and W-15A. All the samples were then submitted for fingerprinting analysis to Zymax Forensics Laboratory in Escondido, California on September 21, 2011. The findings of this study were submitted to the RWQCB on January 25, 2012 as an addendum to the June 30, 2011 FPPH Investigation Report.

4.3 Groundwater Quality

The highest concentrations of TPHg detected during this sampling event were beneath the Coaster property and the northern portions of the MSH (see **Figure 4**). The maximum concentration of TPHg was 2,100 mg/L in well W-15A, 57 mg/L in well MW-708 and 25 mg/L in well MW-711. Both MW-708 and MW-711 are located south of the Coaster property.

Benzene, toluene, ethylbenzene, xylene, and other compounds associated with petroleum hydrocarbons largely mimic TPHg in their presence and relative concentrations in the areas associated with the plume. The maximum concentration of benzene was detected in well W-15A, at 3,900 µg/L, located on the southeastern portion of the MSH (see **Figure 5**). The maximum concentration of MTBE was also detected in well W-15A at 940 µg/L, located southeast of the Coaster property (**Figure 6**) at a distance of approximately 3,000 feet. It is likely that the impacts present in well W-15A are resultant from releases other than those sourced from the refinery property.

Recent changes in the petroleum hydrocarbon plume have been observed:

- The maximum benzene concentration measured on-Site was previously in well W-10, but is now found in well MW-702.
- Well MW-708 has exhibited a decreasing trend in BTEX concentrations since it was installed in 2011, while MW-711 has exhibited an increasing trend over the same period.

Changes in the petroleum hydrocarbon plume may be reflective of the recent increases in groundwater elevation which, as noted in Section 3.1, have exhibited their fifth increase after a long period of steep decline. Murex will continue to monitor the hydrocarbon plume within the well network and provided regular updates to the RWQCB through the monitoring and reporting program.

4.3.1 Off-Site Sources of Petroleum Hydrocarbons

In addition to historic releases from the Site, data collected from the monitoring well network (see **Figures 4, 5, and 6**) exhibits evidence of other sources. Some observations that would support the presence of alternative sources are: (1) the comparatively clean appearance of FPPH in well W-15A versus the weathered or cloudy appearance of FPPH in wells MW-503B and MW-708; (2) the historical presence of FPPH in wells EW-1 and W-3A, which are located east and cross-gradient of the former refinery.

In connection with the study of the FPPH samples submitted for fingerprinting analysis, Murex is also reviewing literature and maps to identify other possible sources of petroleum hydrocarbons in the vicinity of the Site as well as to distinguish Site-related contamination from contamination originating elsewhere.

4.3.2 Discussion of Solvent Detections

Data collected from the monitoring well network (see **Table III**) exhibits the presence of substances not linked to historic releases at the Site, including chlorinated solvents. The following observations were made regarding the additional detected chemicals in groundwater within the Powerine monitoring well network.

During this sampling event, elevated PCE and TCE concentrations (i.e., between 8 and 82 µg/L) were measured in wells W-14B and MW-710. This is consistent with previously measured high values from MW-710. Levels of PCE and TCE found in W-14B had been steadily increasing for the past several monitoring periods since January 2011. Historically, these compounds were also detected in wells MW-107A, MW-701, and MW-14C.

Cis-1,2-DCE and trans-1,2-DCE were found in 28 of the wells sampled at concentrations consistent with historical levels. Well W-16B exhibited elevated concentrations of both cis-1,2-DCE (52 µg/L) and trans-1,2-DCE (100 µg/L) in the second quarter.

1,1-DCE was detected at an elevated concentration of 53 µg/L in well W-14B and 48 µg/L in well MW-710. Historically, wells W-14B and W-14C also exhibited elevated concentrations of these chemicals.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

4.3.3 Assessment of Vapor Risk from Groundwater Plume

At the direction of the DTSC, Murex has conducted an off-site soil gas sampling study. The results, presented to the RWQCB and DTSC in the November 7, 2011 *Off-Site Soil Gas Survey Report*, indicate that the petroleum hydrocarbon plume does not pose a threat to off-site receptors as a result of volatilization from groundwater.

4.4 Biodegradation

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate, Fe²⁺, methane, alkalinity, and ORP results from previous

sampling events conducted at the site. Oxygen has been depleted, as evident by the presence of hydrogen sulfide in the deep subsurface (sulfate reduction reactions result in the formation of hydrogen sulfide). Since the main limiting factor for biodegradation of petroleum hydrocarbons is oxygen, the mechanical introduction of oxygen could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex conducted pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern and reduce the extent of groundwater contamination. Based on the results and data collected during pilot testing, it appears that a combination of remedial technologies would be suited for the site. The results and conclusions of this study were submitted to the RWQCB in the Pilot Testing Report dated November 21, 2011.

5.0 REFERENCES

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6.0 CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,
MUREX ENVIRONMENTAL, INC.



Jeremy R Squire, P.E.
Senior Engineer



Paris Hajali, Ph.D., P.E.
Principal

**Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA**

Well Installation					Completion Data															Location	Reference(s) ¹	
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)					Elevation (ft)								
			Ground Surface	Top of Casing			Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
			(ft)	(ft amsl)					Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing			Hole
Groundwater Monitoring Wells																						
EW-1	6/11/1905	Emcon	146.85	146.85	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	-	Walker	Versar (2000)
MW-101	8/28/1985	IT	145.19	138.00	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	137.18	139.36	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	-	12	4	-	20	-	-	76.5	96.5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	142.38	144.13	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro	-	141.16	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	-	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.92	152.81	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	-	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	147.37	147.02	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.86	135.65	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139.00*	140.62	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	144.08	143.71	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	141.15	142.90	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	140.00*	140.09	12	4	-	30	65.5	103	69.5	99.5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206 ²	9/18/1985	IT	-	-	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	-	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	131.26	130.89	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	131.88	131.00	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	-	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	133.03	132.66	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	137.18	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	-	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.28	124.26	-	4	-	-	-	-	-	-	92.7	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	-	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar	-	-	-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	121.40	120.95	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	140.52	140.07	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	117.40	116.82	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	116.90	116.06	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	128.92	128.28	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	145.19	144.81	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2 ²	12/1995	TRC	-	-	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3 ²	12/1995	TRC	-	-	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	137.18	136.79	-	4	-	-	-	-	-	-	111.52	115	-	-	-	-	-	21	Walker	Versar (2000)
W-4	12/1995	TRC	143.18	142.56	-	4	-	-	-	-	79	129	130	-	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-9	8/22/2006	TA	140.37	139.84	8	2	0.01	35	73	111	75	110	110	120.5	66	28	64	29	29	19	Refinery	ARCADIS BBL (2006)
W-10	8/21/2006	TA	141.39	140.71	8	2	0.01	35	73	111	75	110	110	130	67	29	65	30	30	10	Refinery	ARCADIS BBL (2006)
W-11	8/25/2006	TA	141.96	142.10	8	2	0.01	35	73	111	75	110	110	119	68	30	66	31	31	22	Refinery	ARCADIS BBL (2006)
W-12	8/23/2006	TA	142.93	145.15	8	2	0.01	35	75	114	75	114	114	120.5	69	30	69	30	30	24	Refinery	ARCADIS BBL (2006)
W-14A	1/22/2008		115.23	114.71	9	2	0.02	45	67	112	67	112	112	200	48	3	48	3	3	-85		

**Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA**

Well Installation					Completion Data															Location	Reference(s) ¹	
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation (ft)							
			Ground Surface	Top of Casing			Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
			(ft)	(ft amsl)					Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing			Hole
W-14B	1/22/2008-1/30/2008	Arcadis	115.00*	114.78	9	2	0.02	10	157	167	157	167	167	200	-42	-52	-42	-52	-52	-85	MSH	ARCADIS (2008)
W-14C			115.00*	114.78	9	2	0.02	10	185	195	185	195	195	200	-70	-80	-70	-80	-80	-85		
W-15A	11/27/2007-12/10/2007	Arcadis	127.91	127.59	10	2	0.02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)
W-15B			128.00*	127.61	10	2	0.02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72		
W-15C			128.00*	127.59	10	2	0.02	10	188	200	190	200	200	200	200	-60	-72	-62	-72	-72		
W-16A	10/24/2007-10/30/2007	Arcadis	147.89	147.60	10	2	0.02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)
W-16B			148.00*	147.68	10	2	0.02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52		
W-16C			148.00*	147.67	10	2	0.02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52		
W-17A	1/31/2008-2/8/2008	Arcadis	141.60	141.38	9	2	0.02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)
W-17B			142.00*	141.37	9	2	0.02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59		
W-17C			142.00*	141.38	9	2	0.02	10	190	200	190	200	200	200	200	-49	-59	-49	-59	-59		
MW-701	12/6/2010	Murex	136.87	139.48	12	4	0.02	50	77	130	80	130	130	130	59.87	6.87	56.87	6.87	6.87	6.87	Refinery	Murex (2011)
MW-702	12/15/2010	Murex	140.90	140.12	12	4	0.02	50	77	130	80	130	130	130	63.90	10.90	60.90	10.90	10.90	10.90	Refinery	Murex (2011)
MW-703	12/10/2010	Murex	134.73	137.23	12	4	0.02	50	77	130	80	130	130	130	57.73	4.73	54.73	4.73	4.73	4.73	Refinery	Murex (2011)
MW-704	12/14/2010	Murex	137.93	137.66	12	4	0.02	50	77	130	80	130	130	130	60.93	7.93	57.93	7.93	7.93	7.93	Refinery	Murex (2011)
MW-705	12/13/2010	Murex	139.16	141.94	12	4	0.02	50	77	130	80	130	130	130	62.16	9.16	59.16	9.16	9.16	9.16	Refinery	Murex (2011)
MW-706	12/9/2010	Murex	139.68	139.30	12	4	0.02	50	77	130	80	130	130	130	62.68	9.68	59.68	9.68	9.68	9.68	Refinery	Murex (2011)
MW-707	12/23/2010	Murex	128.86	128.43	12	4	0.02	50	77	130	80	130	130	130	51.86	-1.14	48.86	-1.14	-1.14	-1.14	Getty Drive	Murex (2011)
MW-708	1/12/2011	Murex	126.73	126.26	12	4	0.02	50	77	130	80	130	130	130	49.73	-3.27	46.73	-3.27	-3.27	-3.27	MSH	Murex (2011)
MW-709	1/26/2011	Murex	140.48	139.78	12	4	0.02	50	77	130	80	130	130	130	63.48	10.48	60.48	10.48	10.48	10.48	MSH	Murex (2011)
MW-710	1/13/2011	Murex	122.15	121.99	12	4	0.02	50	77	130	80	130	130	130	45.15	-7.85	42.15	-7.85	-7.85	-7.85	MSH	Murex (2011)
MW-711	1/17/2011	Murex	128.09	127.84	12	4	0.02	50	77	130	80	130	130	130	51.09	-1.91	48.09	-1.91	-1.91	-1.91	MSH	Murex (2011)
MW-712	1/24/2011	Murex	123.57	123.31	12	4	0.02	50	77	130	80	130	130	130	46.57	-6.43	43.57	-6.43	-6.43	-6.43	MSH	Murex (2011)
MW-713	1/19/2011	Murex	128.42	128.15	12	4	0.02	50	77	130	80	130	130	130	51.42	-1.58	48.42	-1.58	-1.58	-1.58	MSH	Murex (2011)
MW-714	1/20/2011	Murex	129.07	128.87	12	4	0.02	50	77	130	80	130	143	130	52.07	-0.93	49.07	-0.93	-13.93	-0.93	MSH	Murex (2011)
MW-715	1/27/2011	Murex	116.66	116.22	12	4	0.02	50	77	130	80	130	130	130	39.66	-13.34	36.66	-13.34	-13.34	-13.34	MSH	Murex (2011)
Groundwater Production Wells																						
W-7	-	-	-	141.97	-	-	-	80	-	-	450	530	690	-	-	-	-	-	-	-	Refinery	IT (1986)
W-7	-	-	-	141.97	-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	-	Refinery	
W-8	-	-	-	141.11	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	-	Refinery	

NOTES:

¹Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

²Well abandoned

- ft Feet
- in Inches
- MSH Metropolitan State Hospital Property
- amsl Above mean sea level
- TOC Top of casing
- * Value retrieved from Google Earth

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
Second Quarter 2012

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	4/30/2012	113.00	107.35	105.80	1.55	146.85	39.50
W-1	4/30/2012	129.61	109.35			144.81	35.46
W-3A	4/30/2012	111.73	DRY			136.79	NA
W-4	4/30/2012	129.71	110.19			142.56	32.37
W-7	4/30/2012	NM	84.00			141.97	57.97
W-8	4/30/2012	NM	68.76			141.11	72.35
W-9	4/30/2012	110.37	91.47			139.84	48.37
W-10	4/30/2012	110.21	96.36			140.71	44.35
W-11	4/30/2012	112.61	96.79			142.10	45.31
W-12	4/30/2012	116.10	102.00			145.15	43.15
W-14 A	4/30/2012	112.00	91.28			114.71	23.43
W-14 B	4/30/2012	167.00	89.91			114.78	24.87
W-14 C	4/30/2012	195.00	90.14			114.78	24.64
W-15 A	4/30/2012	125.70	109.47	108.90	0.57	127.59	18.12
W-15 B	4/30/2012	155.60	109.00			127.61	18.61
W-15 C	4/30/2012	197.34	108.98			127.59	18.61
W-16 A	4/30/2012	123.12	112.82			147.60	34.78
W-16 B	4/30/2012	160.25	111.63			147.68	36.05
W-16 C	4/30/2012	196.30	111.35			147.67	36.32
W-17 A	4/30/2012	108.30	95.90			141.38	45.48
W-17 B	4/30/2012	169.60	100.22			141.37	41.15
W-17 C	4/30/2012	200.00	100.27			141.38	41.11
MW-101	4/30/2012	90.72	DRY			138.00	NA
MW-103	4/30/2012	94.70	DRY			139.36	NA
MW-104A	4/30/2012	100.08	93.30			144.13	50.83
MW-105	4/30/2012	100.47	DRY			141.16	NA
MW-106A	4/30/2012	110.00	108.04			152.81	44.77
MW-107A	4/30/2012	109.49	104.57			147.02	42.45
MW-201	4/30/2012	101.60	DRY			135.65	NA
MW-202	4/30/2012	92.55	DRY			140.62	NA
MW-203	4/30/2012	102.30	DRY			143.71	NA
MW-204	4/30/2012	103.10	DRY			142.90	NA
MW-205	4/30/2012	98.27	DRY			140.09	NA
MW-501A	4/30/2012	93.27	DRY			130.89	NA
MW-502	4/30/2012	100.59	DRY			131.00	NA
MW-503B	4/30/2012	108.67	99.12			132.66	33.54
MW-504	4/30/2012	95.76	DRY			137.18	NA
MW-600A	4/30/2012	92.70	DRY			124.26	NA
MW-601A	4/30/2012	89.90	DRY			126.53	NA
MW-603	4/30/2012	97.60	DRY			120.95	NA
MW-604	4/30/2012	103.20	DRY			140.07	NA
MW-605	4/30/2012	93.98	DRY			116.82	NA
MW-606	4/30/2012	99.05	DRY			116.06	NA
MW-607	4/30/2012	107.05	DRY			128.28	NA
MW-701	4/30/2012	130.00	97.68			139.48	41.80
MW-702	4/30/2012	130.00	97.72			140.12	42.40
MW-703	4/30/2012	130.00	99.00			137.23	38.23
MW-704	4/30/2012	130.00	100.86			137.66	36.80
MW-705	4/30/2012	130.00	102.43			141.94	39.51
MW-706	4/30/2012	130.00	98.96			139.30	40.34
MW-707	4/30/2012	130.00	95.79			128.43	32.64
MW-708	4/30/2012	130.00	95.31			126.26	30.95
MW-709	4/30/2012	130.00	109.03			139.78	30.75

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
Second Quarter 2012

Well ID	Date	Total Depth	Depth to Groundwater	Depth To FPPH	FPPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-710	4/30/2012	130.00	92.81			121.99	29.18
MW-711	4/30/2012	130.00	99.84			127.84	28.00
MW-712	4/30/2012	130.00	97.34			123.31	25.97
MW-713	4/30/2012	130.00	103.44			128.15	24.71
MW-714	4/30/2012	142.00	103.64			128.87	25.23
MW-715	4/30/2012	134.00	94.90			116.22	21.32

NOTES:

- ft Feet
- FPPH Free-phase petroleum hydrocarbons
- amsl Above mean sea level
- NM Not measured, inaccessible
- NA Not available/applicable

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
EW-1	UG/L	11/01/89	9800	730	16	1400A								<5		9.8			<5	<5	29
EW-1	UG/L	03/01/90		1800	300	1800								<25		<50			<25	<25	<100
EW-1	UG/L	04/01/90		1300	290	1600								<1		20	110		<10	<10	<20
EW-1	UG/L	08/21/98	5000	230	<50	630			<50		150	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	01/28/99	7900	110	<50	540			<50		130	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	07/19/99	8000	110	<25	1000			<25		<250	<25	25	<25		<25	<25		<25	<13	<13
EW-1	UG/L	01/13/00	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	07/31/00	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	02/06/01	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	07/26/01	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	05/06/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	09/25/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	11/10/06	4800	65	<4	68	16	<4	<10		42	6.9	<4	<4		8.4	6.3		<4	<4	<10
EW-1	UG/L	02/09/07	4100	41	<2	39	9.4	<2	<5	<50	26	5.1	2.3	<2		7.8	6.5		<2	<2	<5
EW-1	UG/L	05/10/07	3300	19	1.5	15	3.7	<4	<10	17	10	2.6	1.4	<4		6.9	6.9		<4	<4	<10
EW-1	UG/L	08/10/07	3200	36	2.3	14	4.7	0.64	<5	15	20	3.2	1.4	<2		9.9	11		0.35	<2	<5
EW-1	UG/L	02/08/08	4100	73	1.9	4.9	<4	<4	<10	31	5.3	0.48	<4	<4		14	9.8		0.54	<4	2.6
EW-1	UG/L	02/03/11	4500	20	1.5	27	13	<0.50	<1.0	<10	42	<1.0	<1.0	<1.0	1.3	5.9	4.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	02/03/11	4200	20	1.4	27	13	<0.50	<1.0	<10	22	<1.0	<1.0	<1.0	1.1	5.1	3.5	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	04/13/11	4700	29	3.2	51	28	0.74	<1.0	<10	67	1.9	<1.0	<1.0	3.7	8.9	8.6	<1.0	<1.0	<0.50	<1.0
MW-101	UG/L	06/01/88		620	<5	<5															
MW-101	UG/L	09/01/88		310	10	34															
MW-101	UG/L	12/01/88		490	28	<5															
MW-101	UG/L	06/01/92		440	<5	<5															
MW-101	UG/L	09/01/92		340	<5	<5															
MW-101	UG/L	12/01/92		290	<5	<5															
MW-101	UG/L	03/01/93		200	<5	<5															
MW-101	UG/L	12/01/94		62	<5	5															
MW-101	UG/L	03/01/95		110	<5	110															
MW-101	UG/L	09/01/95		180	<4	180															
MW-101	UG/L	12/13/95	2400	90	5.9	6.4								36		0.97	45		9.3	1.8	<0.5
MW-101	UG/L	07/31/96	2300	130	14	130			<10					24000		<0.3	350		8.6	1.6	<0.3
MW-101	UG/L	12/17/96	920	<25	<50	<25			<2		<25	<25	<25	57		<25	90		<25	<25	<50
MW-101	UG/L	01/19/98	1400	65	<5	<5			<5		<10	<5	<5	180		<5	62		17	<5	<10
MW-101	UG/L	08/18/98	3200	140	<5	15			<5		<10	<5	<5	34		<5	52		<5	<5	<10
MW-101	UG/L	01/26/99	3200	68.4	<5	7.08			<5		<10	<5	<5	19.3		<5	71.9		13.9	<5	<10
MW-101	UG/L	07/19/99	1300	22	<2	2.4			<2		<20	<2	<2	78		8.5	57		18	<1	<1
MW-101	UG/L	01/10/00	690	9.2	<1	<1			<1		<10	<1	<1	210		3.5	25		12	2.6	<0.5
MW-101	UG/L	08/03/00	<500	24	<2	<2			<2		<20	<2	<2	37		19	33		15	3.6	5
MW-101	UG/L	02/09/01	600	26	<5	<5			<5		<50	<5	<5	9.9		11	21		7.5	<2.5	3.2
MW-101	UG/L	07/26/01	690	25	<1	2.5			<1		<10	<1	<1	8.1		15	28		8.2	<5	4.3
MW-101	UG/L	05/08/02	580	17	<1	1.3			<1	<10000	<10	<1	<1	6.2		5.6	16		2.9	<0.5	1.9
MW-101	UG/L	09/25/02	570	31	<1	1.2			<1	27000	<10	<1	<1	4.5		4.5	14		3	<0.5	<0.5
MW-101	UG/L	08/03/06	2700	89	<2	3.6	<2	<2	<5	<50	<5	<2	<2	<2		2.4	26		<2	<2	<5
MW-101	UG/L	11/10/06	1900	100	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		2.2	33		<2	<2	<5
MW-101	UG/L	02/12/07	2100	240	<8	<8	<8	<8	<20	72	<20	<8	<8	<8		<8	47		<8	<8	<20
MW-101	UG/L	05/11/07	1100	29	0.47	1	<2	<2	<5	<50	0.76	<2	<2	0.37		2.6	26		1.5	0.39	0.82
MW-101	UG/L	08/08/07	2600	31	0.49	0.95	<2	<2	<5	<50	<5	<2	<2	0.43		<2	21		1	0.46	0.72
MW-101	UG/L	11/08/07	830	62	0.9	1.7	0.8	<0.3	<0.32	<4.9	<0.41	0.24	<0.26	<0.32		<0.27	31		1.2	<0.28	<0.3
MW-103	UG/L	06/01/88		970	74	<5															
MW-103	UG/L	09/01/88		300	<5	<5															
MW-103	UG/L	12/01/88		370	<5	<5															
MW-103	UG/L	03/01/89		940	<5	<5															
MW-103	UG/L	06/01/89		700	<5	<5															
MW-103	UG/L	09/01/89		1000	30	<5															
MW-103	UG/L	03/01/92		210	<5	5															
MW-103	UG/L	06/01/92		880	<5	<5															
MW-103	UG/L	09/01/92		200	<5	<5															
MW-103	UG/L	12/01/92		350	<5	<5															
MW-103	UG/L	03/01/93		<5	8	19															
MW-103	UG/L	05/01/93		4800	<250	<250															
MW-103	UG/L	05/25/93		4800	<250	<250															
MW-103	UG/L	09/01/93		1300	88	62															
MW-103	UG/L	11/01/93		1400	<250	<250															
MW-103	UG/L	12/01/94		240	<10	<10															

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-103	UG/L	03/01/95		160	<5	<5															
MW-103	UG/L	09/01/95		900	<50	<50															
MW-103	UG/L	12/13/95	4100	410	4.1	2.6								<0.5		<0.5	<0.5		2.2	2.1	2.5
MW-103	UG/L	07/31/96	2700	340	5	<0.5			<10					<0.3		<0.3	0.7		17	1.7	<0.3
MW-103	UG/L	12/17/96	2400	200	<5	<5			<10		<5	<5	<5	8.9		<5	<5		27	<5	54
MW-103	UG/L	01/21/98	1300	230	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	28
MW-103	UG/L	08/19/98	1600	220	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-103	UG/L	01/27/99	1900	110	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-103	UG/L	07/19/99	1800	61	1.1	<1			<1		<10	<1	<1	<1		<1	1.2		<1	<0.5	<0.5
MW-103	UG/L	01/12/00	1500	81	<1	<1			1.2		<10	<1	<1	<1		<1	3		<1	4	<0.5
MW-103	UG/L	08/04/00	520	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	2.9		<1	1.5	0.75
MW-103	UG/L	02/09/01	650	0.87	<1	<1			<1		<10	<1	<1	<1		<1	2.4		<1	<0.5	<0.5
MW-103	UG/L	07/25/01	1300	41	<1	<1			2.5		<10	5.8	1.7	<1		<1	2.5		<1	<0.5	<0.5
MW-103	UG/L	05/08/02	200	<0.5	<1	<1			<1	53000	<10	<1	<1	<1		<1	1.3		<1	<0.5	<0.5
MW-103	UG/L	09/25/02	690	40	<1	<1			1.4	40000	<10	1.4	<1	<1		<1	1.6		<1	<0.5	<0.5
MW-103	UG/L	08/03/06	350	<2	<2	<2	<2	<2	71	200	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-103	UG/L	11/08/06	430	4.1	<2	<2	<2	<2	41	160	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-103	UG/L	02/08/07	360	36	<2	<2	<2	<2	26	190	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-103	UG/L	05/09/07	220	0.51	<2	<2	<2	<2	12	85	<5	<2	<2	<2		<2	0.93		<2	0.32	<5
MW-103	UG/L	08/08/07	370	1.3	<2	0.51	0.7	<2	14	110	<5	<2	<2	<2		<2	1.4		<2	0.53	<5
MW-103	UG/L	11/06/07	880	11	0.49	1.2	2.8	0.4	20	160	<0.41	0.24	0.39	<0.32		<0.27	2		<0.27	0.44	<0.3
MW-104	UG/L	06/01/88		<5	<5	<5															
MW-104	UG/L	09/01/88		<5	<5	<5															
MW-104	UG/L	12/01/88		<5	<5	<5															
MW-104	UG/L	03/01/89		<5	<5	<5															
MW-104	UG/L	06/01/89		<5	<5	<5															
MW-104	UG/L	09/01/89		<5	<5	<5															
MW-104	UG/L	12/01/89		<5	<5	<5															
MW-104	UG/L	03/01/90		<5	<5	<5															
MW-104	UG/L	06/01/90		<5	<5	<5															
MW-104	UG/L	09/01/90		<5	<5	<5															
MW-104	UG/L	12/01/90		<5	<5	<5															
MW-104	UG/L	03/01/91		<5	<5	<5															
MW-104	UG/L	06/01/91		<5	<5	<5															
MW-104	UG/L	09/01/91		<5	<5	<5															
MW-104	UG/L	12/01/91		<5	<5	<5															
MW-104	UG/L	03/01/92		<5	<5	<5															
MW-104	UG/L	06/01/92		<5	<5	<5															
MW-104	UG/L	09/01/92		<5	<5	<5															
MW-104	UG/L	12/01/92		<5	<5	<5															
MW-104	UG/L	03/01/93		<5	<5	<5															
MW-104	UG/L	05/01/93		<5	<5	<5															
MW-104	UG/L	05/25/93		<5	<5	<5															
MW-104	UG/L	09/01/93		<5	<5	<5															
MW-104	UG/L	11/01/93		<5	<5	<5															
MW-104	UG/L	03/01/94		<5	<5	<5															
MW-104	UG/L	06/01/94		<5	<5	<5															
MW-104	UG/L	12/01/94		<5	<5	<5															
MW-104	UG/L	03/01/95		<5	<5	<5															
MW-104	UG/L	09/01/95		3	<2	<2															
MW-104	UG/L	12/13/95	<500	3	0.6	<5										0.78			2.7		
MW-104	UG/L	07/31/96	<100	2.2	1.8	<1			<10					<0.3		<0.3	1.5		0.58	0.51	<0.3
MW-104	UG/L	12/16/96	310	4.2	<1	<1			<2		<1	<1	<1	<1		<1	2.7		<1	<1	3.2
MW-104	UG/L	01/20/98	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-104	UG/L	08/18/98	<100	<5	<5	<5					<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-104	UG/L	01/27/99	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-104A	UG/L	07/19/99	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.6		<1	1.2	<0.5
MW-104A	UG/L	01/13/00	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	6.7		<1	<0.5	5.7
MW-104A	UG/L	08/02/00	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	UG/L	02/07/01	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-104A	UG/L	07/25/01	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	<0.5	<0.5
MW-104A	UG/L	05/07/02	100	<0.5	<1	<1			<1	31000	<10	<1	<1	<1		<1	4.3		<1	<0.5	<0.5
MW-104A	UG/L	09/24/02	<100	<0.5	<1	<1			<1	20000	<10	<1	<1	<1		1.4	5.4		<1	<0.5	<0.5
MW-104A	UG/L	06/30/04	<200	<5	<5	<5			<5	30J	<5	<5	<5	<5		2J	8.1		<5	<5	<5
MW-104A	UG/L	10/07/05	<100	<0.5	<1	<1	<1	<1	<1	83	<10	<1	<1	<1		<1	3.4		<1	<0.5	<0.5

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-104A	UG/L	02/15/06	<50	<1	<5	<5	<5	<5	<1	30	<5	<5	<5	<5	<5	<5	2		<5	<5	<5
MW-104A	UG/L	02/07/07	540	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2	<2	<2	<2		<2	<2	<5
MW-104A	UG/L	05/08/07	33	<2	0.37	<2	<2	<2	<5	340	<5	<2	<2	<2	<2	<2	1.8		<2	<2	<5
MW-104A	UG/L	08/08/07	<50	<2	<2	<2	<2	<2	<5	150	<5	<2	<2	<2	<2	0.51	2.9		<2	<2	<5
MW-104A	UG/L	11/05/07	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	<0.23	<0.26	<0.32		0.71	4		<0.27	<0.28	<0.3
MW-104A	UG/L	02/04/08	<50	<2	<2	<2	<2	<2	<5	71	<5	<2	<2	<2	<2	0.91	5.2		<2	<2	<5
MW-104A	UG/L	01/16/09	46	<2	<2	<2	1	<2	<5	23	<5	0.55	<2	<2	<2	0.57	4.6		<2	<2	<5
MW-104A	UG/L	04/22/09	<50	<2	<2	<2	<2	<2	<5	38	<5	<2	<2	<2	<2	0.62	4.5		<2	<2	<5
MW-104A	UG/L	03/03/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	<1.0
MW-104A	UG/L	08/04/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.5		<1.0	<0.50	<1.0
MW-104A	UG/L	11/03/10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	02/02/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	02/02/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	04/14/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	08/24/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<1.0	<1.0				3.3	<1.0	<1.0	<0.50	
MW-104A	UG/L	11/10/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	02/09/12	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	05/09/12	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	<1.0
MW-105	UG/L	12/21/95	<500	11	1.7	0.81										16			4.5	3.3	
MW-105	UG/L	07/31/96	650	91	1.8	2			<10							24		<0.3	12	1.4	<0.3
MW-105	UG/L	12/16/96	240	14	<5	<5			<2		<5	<5	<5			80		<5	<5	<5	<10
MW-105	UG/L	01/20/98	510	21	<5	<5			<5		<10	<5	<5			150		<5	22	<5	<10
MW-105	UG/L	08/18/98	680	53.6	<5	<5			<5		<10	<5	<5			96.7		<5	25.3	15.4	<10
MW-105	UG/L	01/25/99	530	<5	<5	<5			<5		<10	<5	<5			125		<5	22	14	6.43
MW-105	UG/L	07/19/99	610	4.8	<1	<1			<1		<10	<1	<1			78		15	29	16	<0.5
MW-105	UG/L	01/10/00	900	61	<5	<5			<5		<50	<5	<5			<5		62	40	20	<2.5
MW-105	UG/L	07/31/00	580	52	<5	<5			<5		<9.5	<5	<5			<5		59	52	14	9.5
MW-105	UG/L	02/06/01	610	<2.5	<5	<5			<5		<50	<5	<5			<5		21	33	12	<2.5
MW-105	UG/L	07/24/01	210	1	<1	<1			<1		<10	<1	<1			<1		11	18	9	1.5
MW-105	UG/L	05/07/02	530	1.1	<1	<1			<1	27000	<10	<1	<1			<2		6.8	14	4.4	<0.5
MW-105	UG/L	09/24/02	<100	1.4	<1	<1			<1	<10000	<10	<1	<1			<3		6.4	25	4.9	1.4
MW-105	UG/L	06/30/04	270	<5	<5	<5			<5	<100	<5	<5	<5			22		5.4	15	1.1	<5
MW-105	UG/L	10/06/05	300	<0.5	<1	<1	<1	<1	<1	25	<10	<1	<1			6.5		3.7	10	5.8	0.58
MW-105	UG/L	10/06/05	320	<0.5	<1	<1	<1	<1	<1	31	<10	<1	<1			4.5		3.9	10	5.7	0.55
MW-105	UG/L	02/15/06	205	<1	<5	<5	<5	<5	<1	27	<5	<5	<5			4.4		3.2	8.8	5.7	<5
MW-105	UG/L	02/15/06	204	<1	<5	<5	<5	<5	<1	27	<5	<5	<5			4		3	8.8	5.2	<5
MW-105	UG/L	08/01/06	330	<2	<2	<2	<2	<2	<5	57	<5	<2	<2			5.4		3.8	10	3.9	<2
MW-105	UG/L	08/01/06	320	<2	<2	<2	<2	<2	<5	51	<5	<2	<2			6		3.9	9.5	3.9	<2
MW-105	UG/L	11/08/06	230	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2			16		4.2	8.9	3.8	<2
MW-105	UG/L	11/08/06	230	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2			17		4.1	8.9	3.8	<2
MW-105	UG/L	02/07/07	160	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2			19		4.8	12	4.2	<2
MW-105	UG/L	02/07/07	160	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2			15		4.3	12	3.7	<2
MW-105	UG/L	05/09/07	150	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2			12		2.7	7.5	2.6	0.31
MW-105	UG/L	05/09/07	190	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2			12		2.8	7.5	2.6	0.34
MW-105	UG/L	08/07/07	250	<2	<2	<2	<2	<2	0.32	<50	<5	<2	<2			23		5.6	11	3.7	0.6
MW-105	UG/L	11/05/07	180	0.35	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	0.56	<0.23	<0.26			19		5.5	9.6	3.3	0.53
MW-105	UG/L	02/05/08	190	1.1	<2	<2	<2	<2	<5	<50	<5	<2	<2			24		6.5	10	2.6	1.1
MW-105	UG/L	02/05/08	170	1.2	<2	<2	<2	<2	<5	<50	<5	<2	<2			25		6.9	11	2.6	1.1
MW-105	UG/L	01/15/09	180	0.71	<2	<2	<2	<2	<5	<50	<5	<2	<2			35		2.9	9	2.5	0.86
MW-105	UG/L	01/15/09	160	0.85	<2	<2	<2	<2	<5	<50	<5	<2	<2			41		3.2	10	2.6	1
MW-105	UG/L	04/22/09	120	0.66	<2	<2	<2	<2	<5	<50	<5	<2	<2			22		3	9.5	2.4	1.2
MW-105	UG/L	04/22/09	100	0.5	<2	<2	<2	<2	<5	<50	<5	<2	<2			16		2.1	7.3	1.7	1
MW-106	UG/L	12/20/95	790	12	3.5	10										15			33		
MW-106	UG/L	07/31/96	600	14	2.2	9			3.6							17			26		<0.3
MW-106	UG/L	12/17/96	360	3.1	<2	<2			<2		<2	<2	<2			26			63		<4
MW-106	UG/L	01/20/98	800	24	<5	8.1			<5		<10	<5	<5			10			46		<10
MW-106	UG/L	08/20/98	1000	27	<5	84			<5		<10	<5	<5			5.8			430		<10
MW-106	UG/L	01/27/99	1100	21000	<5	8.5			<5		<10	<5	<5			<5			47		<10
MW-106	UG/L	07/19/99	890	18	<1	7.7			<1		<10	<1	<1			6.4			39		<0.5
MW-106	UG/L	01/14/00	1000	4.1	<1	<1			<1		<10	<1	<1			9.6			20		<0.5
MW-106	UG/L	07/31/00	<500	5.3	<1	<1			<1		<10	<1	<1			21			26		2.7
MW-106	UG/L	02/06/01	530	2.3	<1	1.3			<1		<10	<1	<1			25			35		<0.5
MW-106	UG/L	07/24/01	470	1.7	<1	<1			<1		<10	<1	<1			23			33		<0.5
MW-106	UG/L	05/07/02	430	2.4	<1	<1			<1	38000	<10	<1	<1			17			22		1.6

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-106	UG/L	09/24/02	120	3.5	<1	<1			<1	28000	<10	<1	<1	<1		24	24		2.1	<0.5	21
MW-106	UG/L	07/01/04	260	2.3J	0.77	1.1			<5	<100	<5	<5	<5	<5		21	15		2J	<5	<5
MW-106A	UG/L	08/02/06	310	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		21	13		<2	<2	10
MW-106A	UG/L	11/09/06	82	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	14		<2	<2	7
MW-106A	UG/L	02/08/07	270	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		20	15		<2	<2	13
MW-106A	UG/L	05/10/07	210	1.5	<2	0.28	<2	<2	<5	20	<5	<2	<2	<2		12	9.9		0.6	<2	7.9
MW-106A	UG/L	08/09/07	270	1.6	<2	0.6	<2	<2	<5	19	0.69	<2	<2	<2		14	12		0.83	<2	12
MW-106A	UG/L	11/07/07	240	1.4	<0.36	0.84	<0.6	<0.3	<0.32	20	1.6	<0.23	<0.26	<0.32		9.5	11		0.7	<0.28	9.9
MW-106A	UG/L	02/05/08	220	1.6	<2	0.42	<2	<2	<5	16	1.8	<2	<2	<2		7.8	10		0.73	<2	10
MW-106A	UG/L	01/19/09	220	0.46	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		11	13		0.99	<2	6.3
MW-106A	UG/L	04/23/09	290	1.9	<2	3.7	<2	<2	<5	18	0.93	<2	<2	<2		6.3	5.5		0.82	<2	10
MW-106A	UG/L	03/05/10	590	8.4	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	3.5		<1.0	<0.50	<1.0
MW-106A	UG/L	05/13/10	460	8.6	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	<1.0		<1.0	<0.50	21
MW-106A	UG/L	08/06/10	450	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.5	1.0		1.2	<0.50	25
MW-106A	UG/L	11/04/10	630	0.64	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	8.8
MW-106A	UG/L	02/03/11	570	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	04/19/11	480	0.63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	6.9
MW-106A	UG/L	08/25/11	540	0.51	<0.50	<0.50	<1.0	<0.50	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
MW-106A	UG/L	11/14/11	440	0.87	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	02/03/12	440	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	11
MW-106A	UG/L	05/08/12	630	7.1	<0.50	0.87	1.5	<0.50	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	23
MW-107	UG/L	12/21/95	<500	16	0.99	0.77										6.5	28				
MW-107	UG/L	07/31/96	600	31	4.4	6.6			110					<0.3		19	31		<0.3	<0.3	1.1
MW-107	UG/L	12/17/96	380	22	<5	<5			<2		<5	<5	<5	<5		33	80		<5	<5	<10
MW-107	UG/L	01/20/98	830	42	<5	<5			<5		<10	<5	<5	<5		47	120		<5	<5	<10
MW-107	UG/L	08/20/98	830	28	<5	<5			<5		<10	<5	<5	<5		25	98		<5	<5	<10
MW-107	UG/L	01/27/99	1100	36	<5	<5			<5		<10	<5	<5	<5		44	100		<5	<5	<10
MW-107	UG/L	07/19/99	820	38	<5	<5			<5		<50	<5	<5	<5		77	120		<5	<2.5	<2.5
MW-107	UG/L	01/12/00	1700	87	<1	7.8			<1		<10	<1	<1	<1		110	120		1.6	<0.5	<0.5
MW-107	UG/L	07/31/00	1700	250	<5	20			<5		<50	<5	<5	<5		59	43		8.3	<2.5	53
MW-107	UG/L	02/06/01	2100	180	<1	4			<1		<10	<1	<1	<1		4.5	45		20	<0.5	21
MW-107	UG/L	07/26/01	2000	220	<1	38			<2		<10	<1	<1	<1		13	33		33	<0.5	<0.5
MW-107	UG/L	05/09/02	2100	310	<2	3			<2	26000	<20	<2	<2	<2		5.7	8.8		21	<1	30
MW-107	UG/L	09/25/02	2200	770	<2	5.7	<0.5	<0.5	<2	20000	<20	<2	<2	<2		<2	5.8		30	<1	28
MW-107	UG/L	07/01/04									2J	<5	<5	<5		<5	<5		14	<5	12
MW-107A	UG/L	08/02/06	770	3.7	<2	<2	3.4	<2	<5	<50	<5	<2	<2	<2		2.4	3.9		<2	<2	<5
MW-107A	UG/L	11/09/06	780	24	<2	4.7	9.1	<2	<5	<50	<5	<2	<2	<2		5.3	6.2		<2	<2	<5
MW-107A	UG/L	02/08/07	500	80	<2	21	25	<2	<5	<50	7.4	<2	<2	<2		7.4	9.6		<2	<2	<5
MW-107A	UG/L	05/10/07	670	42	1	14	17	<2	<5	21	6	<2	0.29	<2		6	6.6		<2	<2	2
MW-107A	UG/L	08/09/07	1000	61	2	15	41	<2	<5	18	8.5	<2	0.33	<2		9.5	8.8		0.31	<2	2.3
MW-107A	UG/L	11/07/07	1500	44	4.2	16	26	<0.3	<0.32	35	11	<0.23	0.49	<0.32		9.4	6.4		0.3	<0.28	4.4
MW-107A	UG/L	02/05/08	2800	19	3	3	12	<2	<5	37	3.9	<2	0.38	<2		9.2	5.6		0.29	<2	5
MW-107A	UG/L	01/19/09	1100	13	1.9	1.5	9.9	0.43	<5	66	1.1	<2	0.29	<2		7.3	6.8		<2	<2	2
MW-107A	UG/L	01/19/09	1200	12	1.9	1.6	9.6	0.38	<5	62	1.3	<2	0.27	<2		7.5	7.2		<2	<2	1.8
MW-107A	UG/L	04/23/09	1300	74	1.1	13	94	0.47	<5	67	6.6	3.2	2.8	<2		10	8.5		<2	<2	1.3
MW-107A	UG/L	04/23/09	2400	79	1.2	13	91	0.47	<5	66	7.5	3	2.7	<2		11	9.4		<2	<2	1.3
MW-107A	UG/L	03/05/10	1100	17	0.68	1.6		<0.50	<1.0	<10	6.0	<1.0	<1.0	<1.0		7.6	6.8		<1.0	<0.50	<1.0
MW-107A	UG/L	03/05/10	1300	16	0.66	1.7		<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0		7.4	6.4		<1.0	<0.50	<1.0
MW-107A	UG/L	05/13/10	1500	7.6	11	4.1		2.0	4.7	<10	3.3	2.0	<1.0	<1.0		4.7	4.8		<1.0	<0.50	<1.0
MW-107A	UG/L	05/13/10	1100	8.8	11	4.2		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.9	5.9		<1.0	<0.50	<1.0
MW-107A	UG/L	08/06/10	1300	120	150	39		1.3	<1.0	<10	24	1.9	<1.0	<1.0		7.5	10		<1.0	<0.50	<1.0
MW-107A	UG/L	08/06/10	1300	120	160	39		1.3	<1.0	<10	29	1.9	<1.0	<1.0		7.0	9.5		<1.0	<0.50	<1.0
MW-107A	UG/L	11/04/10	1400	39	11	16	29	<0.50	<1.0	<10	4.1	<1.0	<1.0	<1.0	7.5	5.8	7.7	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/04/10	1600	36	10	14	26	<0.50	<1.0	<10	4.2	<1.0	<1.0	<1.0	7.1	5.1	6.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	02/03/11	740	4.1	2.2	3.2	14	<0.50	<1.0	<10	1.2	<1.0	<1.0	<1.0	3.3	2.4	3.2	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	04/19/11	1200	2.4	0.90	1.2	4.7	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	3.6	5.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	04/19/11	1200	2.6	0.99	1.2	5.2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	4.2	5.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	08/25/11	590	0.95	<0.50	<0.50	1.8	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.4	1.7	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	08/25/11	480	0.84	<0.50	<0.50	1.4	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.9	1.4	3.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/14/11	550	1.0	<0.50	<0.50	1.6	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	4.8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	01/31/12	500	0.97	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.6	2.6	7.8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	05/08/12	710	0.78	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0	1.7	1.6	3.4	<1.0	<1.0	<0.50	<1.0
MW-201	UG/L	06/01/88		1000	150	<5															

Table III
 Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
 Former Powerline Refinery
 Santa Fe Springs, CA
 2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
MW-201	UG/L	09/01/88		520	210	110																
MW-201	UG/L	12/01/88		420	65	19																
MW-201	UG/L	03/01/89		210	27	24																
MW-201	UG/L	06/01/89		350	<5	<5																
MW-201	UG/L	09/01/89		830	100	32																
MW-201	UG/L	12/01/89		510	76	24																
MW-201	UG/L	03/01/90		350	38	29																
MW-201	UG/L	06/01/90		820	49	84																
MW-201	UG/L	09/01/90		340	15	20																
MW-201	UG/L	12/01/90		240	12	7																
MW-201	UG/L	03/01/91		500	<5	<5																
MW-201	UG/L	06/01/91		530	<5	<5																
MW-201	UG/L	09/01/91		370	<5	<5																
MW-201	UG/L	12/01/91		340	10	9																
MW-201	UG/L	06/01/92		25	<5	<5																
MW-201	UG/L	09/01/92		350	<5	<5																
MW-201	UG/L	12/01/92		1150	<5	<5																
MW-201	UG/L	03/01/93		560	77	<50																
MW-201	UG/L	12/01/94		1300	66	500																
MW-201	UG/L	03/01/95		290	<5	<5																
MW-201	UG/L	09/01/95		1100	28	130																
MW-201	UG/L	12/13/95	9000	440	42	120								58		1.7	44		9.4	4.4		
MW-201	UG/L	07/31/96	<100	480	20	32			<10					110		<0.3	34		9.4	2.7	<0.3	
MW-201	UG/L	12/17/96	3700	110	12	96			<10		<10	140	28	210		<10	89		<10	<10	<20	
MW-201	UG/L	01/21/98	2600	250	14	87			<5		11	20	9.9	160		5.5	71		9.9	<5	<10	
MW-201	UG/L	08/18/98	2600	440	8.6	20					11	<5	<5	16		<5	63		6.3	<5	<10	
MW-201	UG/L	07/19/99	2800	160	29	69			<5		<50	53	15	40		12	63		9.3	<2.5	<2.5	
MW-201	UG/L	01/12/00	5100	520	14	53			<6		<50	32	<5	<5		<5	43		<5	<2.5	<2.5	
MW-201	UG/L	08/04/00	2900	570	15	61			<7		<10	33	<5	<5		<5	76		<5	<2.5	<2.5	
MW-201	UG/L	02/09/01	2200	310	12	130			<8		<100	24	<10	<10		<10	100		<10	<5	<5	
MW-201	UG/L	07/26/01	3200	180	9.6	56			<10		<100	17	2.5	<10		6.8	57		23	<5	<10	
MW-201	UG/L	05/09/02	1800	120	6.6	45			5.1	<20000	<20	5.6	3.8	<2		4.2	33		<2	<1	1.1	
MW-201	UG/L	09/26/02	890	11	11	68			<1	<10000	<1	12	14	<1		3.3	27		<1	<0.5	1.4	
MW-201	UG/L	06/30/04	1700	120	12	210	58	13	<5	<100	16	5.4	12	<5		<5	21		<5	<5	2J	
MW-201	UG/L	10/07/05	3400	740	37	470	73	18	<5	130	120	33	16	<5		<5	49		<5	34	<2.5	
MW-201	UG/L	02/15/06	1890	128	2.5	15	6.3	<5	<1	20	<5	1.2	<5	<5		<5	8.1		<5	<5	<5	
MW-201	UG/L	08/02/06	1000	73	<2	8.2	4.1	<2	<5	<50	<5	<2	<2	<2		<2	13		<2	<2	<5	
MW-201	UG/L	11/09/06	1100	58	3.4	49	11	2.9	<5	<50	22	4.8	<2	<2		<2	25		<2	<2	<5	
MW-201	UG/L	02/07/07	1100	94	<2	8.6	5.1	<2	<5	<50	<5	<2	<2	<2		<2	25		<2	<2	<5	
MW-201	UG/L	05/09/07	830	47	0.75	4	2.6	<2	<5	<50	<5	<2	<2	<2		<2	38		0.4	0.83	0.67	
MW-201	UG/L	08/08/07	1300	44	0.75	5.1	3.3	<2	<5	<50	<5	0.41	0.42	<2		<2	31		0.37	1	0.9	
MW-201	UG/L	11/06/07	1500	110	3.9	57	30	5.9	<0.32	92	25	6.3	8.4	<0.32		0.91	38		0.52	1.1	1.6	
MW-201	UG/L	02/07/08	670	39	<2	3.2	<2	<2	<5	<50	<5	<2	<2	<2		<2	33		<2	<2	<5	
MW-201	UG/L	01/20/09	1400	97	3.9	17	19	1	<5	44	<5	2.4	1.7	<2		0.6	16		<2	2.1	1.6	
MW-201	UG/L	04/28/09	510	70	1.1	15	1.2	<2	<5	12	<5	0.7	3.5	<2		<2	12		<2	2.2	0.79	
MW-202	UG/L	11/01/93		7700	<500	2600																
MW-202	UG/L	03/01/95		400	7	29																
MW-202	UG/L	09/01/95		500	10	48																
MW-202	UG/L	12/01/95	6500	330	21	51																
MW-202	UG/L	07/31/96	4800	640	15	<0.5			62					<0.3		0.34	2		0.54	0.58	<0.3	
MW-202	UG/L	12/17/96	7400	890	<50	<50			<20		<50	<50	<50	<50		<50	<50		<50	<50	<10	
MW-202	UG/L	01/21/98	1600	450	<5	19			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10	
MW-202	UG/L	08/18/98	3100	280	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10	
MW-202	UG/L	01/27/99	2300	76	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10	
MW-202	UG/L	07/19/99	2300	36	2.1	3.7			<2		<20	<2	<2	<2		<2	3.3		<2	<1	<1	
MW-202	UG/L	01/11/00	2400	49	<1	2.4			1.2		<10	<1	<1	<1		<1	1.9		2.2	<0.5	<0.5	
MW-202	UG/L	02/07/00	1100	25	<1	<1			<1		<10	<1	<1	<1		<1	2.3		7.3	<0.5	3.3	
MW-202	UG/L	08/02/00	1400	41	<1	<1			<1		<10	<1	<1	<1		<1	4.6		11	<0.5	<0.5	
MW-202	UG/L	07/24/01	1100	38	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.8	<0.5	<0.5	
MW-202	UG/L	05/08/02	1400	330	2.9	2.1			16	66000	<10	<1	<1	<1		<1	<1		1.2	<0.5	<0.5	
MW-202	UG/L	09/26/02	1000	170	7.8	14			12	59000	<50	<5	<5	<5		<5	<5		<5	<2.5	<2.5	
MW-203	UG/L	06/01/88		46	<5	<5																
MW-203	UG/L	09/01/88		76	<5	<5																
MW-203	UG/L	12/01/88		64	<5	<5																
MW-203	UG/L	03/01/89		110	<5	<5																

Table III
 Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
 Former Powerine Refinery
 Santa Fe Springs, CA
 2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
MW-203	UG/L	06/01/89		110	<5	<5																
MW-203	UG/L	09/01/89		80	<5	5																
MW-203	UG/L	12/01/89		100	<5	<5																
MW-203	UG/L	03/01/90		90	<5	<5																
MW-203	UG/L	06/01/90		88	2	7																
MW-203	UG/L	09/01/90		130	<5	9																
MW-203	UG/L	12/01/90		94	<5	7																
MW-203	UG/L	03/01/91		100	<5	<5																
MW-203	UG/L	06/01/91		100	<5	<5																
MW-203	UG/L	09/01/91		140	<5	<5																
MW-203	UG/L	12/01/91		130	<5	<5																
MW-203	UG/L	03/01/92		120	<5	<5																
MW-203	UG/L	06/01/92		85	<5	<5																
MW-203	UG/L	09/01/92		46	<5	<5																
MW-203	UG/L	12/01/92		64	<5	<5																
MW-203	UG/L	03/01/93		69	<5	<5																
MW-203	UG/L	05/01/93		86	<5	<5																
MW-203	UG/L	05/25/93		86	<5	<5																
MW-203	UG/L	09/01/93		40	<5	<5																
MW-203	UG/L	12/01/94		39	<5	<5																
MW-203	UG/L	03/01/95		27	<5	<5																
MW-203	UG/L	09/01/95		28	<2	<2																
MW-203	UG/L	12/13/95	640	37	1	12										4.5	40		0.61		1.4	
MW-203	UG/L	07/31/96	500	43	2	1.8		<20						<0.3		1.7	22		0.34	<0.3	2	
MW-203	UG/L	12/17/96	160	30	<1	<1		<2			<1	<1	<1	<1		<1	<1		<1	<1	<2	
MW-203	UG/L	01/20/98	250	24	<5	<5		<5			<10	<5	<5	<5		<5	28		<5	<5	<10	
MW-203	UG/L	08/20/98	290	17	<5	<5		<5			<10	<5	<5	<5		<5	35		<5	<5	<10	
MW-203	UG/L	01/27/99	330	12	<5	<5		<5			<10	<5	<5	<5		<5	35		<5	<5	<10	
MW-203	UG/L	07/19/99	<500	16	<1	<1		<1			<10	<1	<1	<1		1.9	24		<1	<0.5	<0.5	
MW-203	UG/L	01/12/00	<500	7.8	<1	<1		1			<10	<1	<1	<1		<1	14		<1	0.53	<5	
MW-203	UG/L	07/31/00	<500	97	<1	<1		<5			<10	<1	<1	<1		<1	16		<1	<0.5	0.51	
MW-203	UG/L	02/06/01	<500	13	<1	<1		<1			<10	<1	<1	<1		1.6	25		<1	<0.5	1.1	
MW-203	UG/L	07/24/01	180	14	<1	<1		<1			<10	<1	<1	<1		1.8	24		<1	<0.5	8.3	
MW-203	UG/L	05/08/02	150	8.7	<1	<1		<1	30000		<10	<1	<1	<2		1.7	21		<1	<0.5	0.53	
MW-203	UG/L	09/25/02	160	11	<1	<1		<1	25000		<10	<1	<1	<3		2.5	27		<1	<0.5	1.1	
MW-203	UG/L	07/01/04	270	9.2	0.5J	0.75	<0.5	<0.5	<5	<100	<5	<5	<5	<5		4J	24		<5	<5	<5	
MW-203	UG/L	08/02/06	240	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		4.4	18		<2	<2	11	
MW-203	UG/L	11/09/06	260	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		4.8	20		<2	<2	10	
MW-203	UG/L	02/08/07	150	2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		3.4	21		<2	<2	9.7	
MW-203	UG/L	05/10/07	170	1	<2	<2	<2	<2	0.7	28	<5	<2	<2	<2		2.8	14		0.75	<2	7.8	
MW-203	UG/L	08/09/07	270	0.88	<2	<2	<2	<2	0.59	27	<5	<2	<2	<2		2.4	16		0.77	<2	8.5	
MW-203	UG/L	11/07/07	65	0.78	<0.36	<0.25	<0.6	<0.3	0.69	28	<0.41	<0.23	<0.26	<0.32		2.5	18		0.76	<0.28	8	
MW-203	UG/L	02/05/08	87	1.4	<2	<2	<2	<2	0.63	32	<5	<2	<2	<2		2.4	19		0.77	<2	8.7	
MW-203	UG/L	01/19/09	65	0.53	<2	<2	<2	<2	0.84	40	<5	<2	<2	<2		3	20		0.92	<2	7.6	
MW-203	UG/L	04/23/09	69	0.63	<2	<2	<2	<2	3.1	36	<5	<2	<2	<2		1.8	12		0.58	<2	4.9	
MW-204	UG/L	06/01/88		19	<5	<5																
MW-204	UG/L	09/01/88		6	<5	<5																
MW-204	UG/L	12/01/88		33	<5	<5																
MW-204	UG/L	03/01/89		39	<5	<5																
MW-204	UG/L	06/01/89		76	<5	<5																
MW-204	UG/L	09/01/89		64	<5	<5																
MW-204	UG/L	12/01/89		160	<5	<5																
MW-204	UG/L	03/01/90		9	<5	<5																
MW-204	UG/L	06/01/90		2	<5	<5																
MW-204	UG/L	09/01/90		25	<5	<5																
MW-204	UG/L	12/01/90		<5	<5	<5																
MW-204	UG/L	03/01/91		<5	<5	<5																
MW-204	UG/L	06/01/91		<5	<5	<5																
MW-204	UG/L	09/01/91		27	<5	<5																
MW-204	UG/L	12/01/91		47	<5	<5																
MW-204	UG/L	03/01/92		90	<5	<5																
MW-204	UG/L	06/01/92		110	71	<5																
MW-204	UG/L	09/01/92		90	20	<5																
MW-204	UG/L	12/01/92		2700	3700	<5																
MW-204	UG/L	04/01/93		130	28	21																
MW-204	UG/L	05/01/93		780	<50	<50																

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerline Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-204	UG/L	05/25/93		780	<50	<50															
MW-204	UG/L	12/01/94		5500	630	190															
MW-204	UG/L	03/01/95		5000	77	120															
MW-204	UG/L	09/01/95		6900	4700	650															
MW-204	UG/L	12/13/95	12000000	880	670	240															
MW-204	UG/L	08/01/96	14000	1400	1300	520			32					<1		<1	2.9		3.3	7.2	5.2
MW-204	UG/L	12/17/96	2100	750	58	<50			<200		<50	<50	<50	<50		<50	<50		<50	<50	<100
MW-204	UG/L	01/21/98	6000	2300	79	210			5.1		65	90	23	<5		<5	<5		<5	<5	9
MW-204	UG/L	08/21/98	11000	5100	510	520			<50		<100	200	<50	<50		<50	<50		<50	150	<100
MW-204	UG/L	01/28/99	10000	3300	120	530			5.2		94	250	61	<50		<50	<50		<50	<50	12
MW-204	UG/L	07/19/99	1900	560	<10	110			27		<100	47	11	<10		<10	<10		<10	<5	<5
MW-204	UG/L	01/11/00	2100	270	<10	<10			<10		<100	<10	<10	<10		<10	<10		<10	<5	<5
MW-204	UG/L	08/03/00	1300	400	<5	12			<5		<10	<5	<5	<5		<5	<5		<5	<2.5	<2.5
MW-204	UG/L	02/08/01	1200	55	1.4	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-204	UG/L	07/24/01	1200	200	<1	12			1.6		<10	<1	<1	<1		<1	1.5		4.7	<0.5	<0.5
MW-204	UG/L	05/09/02	1400	250	37	120			<2	170000	<20	26	8.9	<2		<2	2.7		3.5	<1	3.5
MW-204	UG/L	09/26/02	560	67	2.5	19			<2	200000	<20	22	7.7	<2		<2	3.6		<2	<1	3.4
MW-204	UG/L	06/30/04	260	30	<5	7.6	6	<0.5	<5	150	4j	6.8	2j	<5		<5	4j		<5	<5	<5
MW-204	UG/L	10/07/05	340	5.7	<1	4.2	2.1	<1	<1	90	<10	2.3	1.2	<1		<1	3.4		<1	1.6	<0.5
MW-204	UG/L	02/15/06	111	1.5	<5	2.5	1.4	<5	<1	91	<5	2.6	1.2	<5		<5	2.6		<5	<5	<5
MW-204	UG/L	08/01/06	260	<2	<2	9.5	8.1	<2	<5	67	<5	14	6.7	<2		<2	3.9		<2	<2	<5
MW-204	UG/L	11/10/06	81	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	5.5		<2	<2	<5
MW-204	UG/L	02/07/07	360	4.9	<2	11	14	<2	<5	64	5.6	25	16	<2		<2	2.8		<2	<2	<5
MW-204	UG/L	11/06/07	53	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	0.65	0.42	<0.32		<0.27	2.2		<0.27	0.4	<0.3
MW-204	UG/L	02/04/08	37	<2	<2	<2	<2	<2	<5	71	0.42	0.38	<2	<2		<2	1.6		<2	0.37	<5
MW-204	UG/L	04/23/09	110	<2	<2	<2	<2	<2	<5	71	0.51	0.74	0.84	<2		<2	5.9		<2	<2	<5
MW-205	UG/L	06/01/88		13	<5	<5															
MW-205	UG/L	09/01/88		27	<5	<5															
MW-205	UG/L	12/01/88		120	<5	<5															
MW-205	UG/L	03/01/89		40	<5	<5															
MW-205	UG/L	06/01/89		120	<5	<5															
MW-205	UG/L	09/01/89		81	<5	<5															
MW-205	UG/L	12/01/89		170	<5	<5															
MW-205	UG/L	03/01/90		140	<5	<5															
MW-205	UG/L	06/01/90		56	<5	<5															
MW-205	UG/L	09/01/90		45	<5	<5															
MW-205	UG/L	12/01/90		47	<5	<5															
MW-205	UG/L	03/01/91		40	<5	<5															
MW-205	UG/L	06/01/91		<5	<5	<5															
MW-205	UG/L	09/01/91		43	<5	<5															
MW-205	UG/L	12/01/91		85	<5	<5															
MW-205	UG/L	03/01/92		35	<5	<5															
MW-205	UG/L	06/01/92		6	<5	<5															
MW-205	UG/L	09/01/92		5	<5	<5															
MW-205	UG/L	12/01/92		10	<5	<5															
MW-205	UG/L	03/01/93		<5	<5	<5															
MW-205	UG/L	05/01/93		22	<5	<5															
MW-205	UG/L	05/25/93		22	<5	<5															
MW-205	UG/L	11/01/93		32	<5	<5															
MW-205	UG/L	12/01/94		<5	<5	<5															
MW-205	UG/L	03/01/95		<5	<5	<5															
MW-205	UG/L	09/01/95		5.3	<2	<2															
MW-205	UG/L	12/13/95	2100	110	1.3	18								2.8		5.3	51		7.3	2	
MW-205	UG/L	07/31/96	<100	5.1	<2	<2			<10					3.5		<0.3	30		2.8	<0.3	<0.3
MW-205	UG/L	12/16/96	270	<2	<2	<2			2		<2	<2	<2	<2		<2	35		<2	<2	<4
MW-205	UG/L	01/20/98	190	<5	<5	<5			<5		<10	<5	<5	<5		<5	27		<5	<5	<10
MW-205	UG/L	08/21/98	17	<5	<5	<5			<5		<10	<5	<5	<5		<5	32		<5	<5	<10
MW-205	UG/L	01/26/99	220	6.87	<5	<5			<5		<10	<5	<5	<5		<5	26.1		<5	<5	<10
MW-205	UG/L	07/19/99	<500	10	<1	<1			<1		<10	<1	<1	<1		1.8	23		<1	<0.5	<0.5
MW-205	UG/L	01/11/00	790	26	1.3	2			<1		<10	<1	<1	<1		<1	13		<1	<0.5	13
MW-205	UG/L	08/02/00	<500	11	<1	<1			<10		<10	<1	<1	<1		<1	6		<1	<0.5	<0.5
MW-205	UG/L	02/07/01	540	37	<1	12			<1		<10	1.7	8.5	<1		<1	5.2		<1	<0.5	0.96
MW-205	UG/L	07/26/01	380	21	<1	1.1			<1		<10	<1	<1	<1		<1	17		<1	<0.5	<0.5
MW-205	UG/L	05/08/02	260	9.7	<1	<1			<1	<10000	<10	<1	<1	<1		<1	22		<1	<0.5	0.65
MW-205	UG/L	09/25/02	300	24	<1	<1			<1	4000	<10	<1	1.1	<1		<1	10		<1	<0.5	4.7
MW-205	UG/L	06/30/04	<200	3j	<5	<5	<0.5	<0.5	<5	<100	<5	<5	<5	<5		<5	6.5		<5	<5	<5

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Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-205	UG/L	10/06/05	850	55	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	4.2	<1	<0.5	<0.5	<0.5
MW-205	UG/L	02/15/06	411	35	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5	<5	<5	19	<5	<5	<5	<5
MW-205	UG/L	08/02/06	560	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	35	<2	<2	<2	<5
MW-205	UG/L	11/08/06	360	7	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	48	<2	<2	<2	<5
MW-205	UG/L	02/07/07	150	24	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	32	<2	<2	<2	<5
MW-205	UG/L	05/09/07	190	7.4	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	0.85	40	<2	<2	0.54	0.41
MW-205	UG/L	08/08/07	290	6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	29	<2	<2	1.2	0.65
MW-205	UG/L	11/06/07	330	12	<0.36	<0.25	<0.6	<0.3	<0.32	12	<0.41	<0.23	<0.26	<0.32	<0.7	23	<0.27	<0.27	1.8	1.5	1.5
MW-205	UG/L	02/05/08	260	4.9	<2	<2	<2	<2	<5	9.2	<5	<2	<2	<2	<2	<2	14	<2	<2	2	1.8
MW-205	UG/L	01/19/09	<380	150	0.86	2	<4	<4	<10	13	<10	<4	<4	<4	<4	<4	3	<4	<4	<4	<10
MW-205	UG/L	04/22/09	<320	96	<2	0.38	<2	<2	<5	33	<5	<2	<2	<2	<2	<2	0.6	<2	<2	<2	<5
MW-206	UG/L	06/01/88		5800	2400	2100															
MW-206	UG/L	09/01/88		4200	1000	2000															
MW-206	UG/L	12/01/88		4300	920	2100															
MW-206	UG/L	03/01/89		2700	3200	2400															
MW-206	UG/L	06/01/89		3100	1200	2300															
MW-206	UG/L	09/01/89		4500	620	2400															
MW-206	UG/L	12/01/89		3200	1000	2000															
MW-206	UG/L	03/01/90		3700	1700	2600															
MW-206	UG/L	06/01/90		3700	960	2000															
MW-206	UG/L	09/01/90		5100	2100	2300															
MW-206	UG/L	12/01/90		7100	2100	2400															
MW-206	UG/L	03/01/91		4900	2600	2200															
MW-206	UG/L	06/01/91		5220	1080	2400															
MW-206	UG/L	09/01/91		4500	2100	2000															
MW-206	UG/L	12/01/91		3400	720	2500															
MW-206	UG/L	03/01/92		2000	470	2500															
MW-206	UG/L	06/01/92		3200	420	2100															
MW-206	UG/L	09/01/92		9900	1400	3200															
MW-206	UG/L	12/01/92		13000	2000	6000															
MW-206	UG/L	12/01/94		8400	4900	1800															
MW-206	UG/L	03/01/95		9000	720	2000															
MW-206	UG/L	09/01/95		6200	800	1600															
MW-206	UG/L	12/13/95	12000	110	16	32															
MW-206	UG/L	07/31/96	33000	570	110	420		510						<0.3		<0.3	20	8.8	5.8	<0.3	<0.3
MW-206	UG/L	12/18/96	8200	2200	<100	1200		<20		130	190	140		<100		<100	<100	<100	<100	<100	<200
MW-206	UG/L	01/21/98	13000	1500	290	1600		<5		59	35	12		<5		<5	130	<5	<5	<5	<10
MW-206	UG/L	08/20/98	NS	NS	NS	NS		NS		NS	NS	NS		NS		NS	NS	NS	NS	NS	NS
MW-501	UG/L	03/01/95		4200	230	1000															
MW-501	UG/L	09/01/95		2400	270	<200															
MW-501	UG/L	12/13/95	69000	1600	100	880											8.5	1.6	3.2		
MW-501	UG/L	07/31/96	18000	1700	73	220		180						<0.3		<0.3	7.2	0.81	1.3	<0.3	<0.3
MW-501	UG/L	12/18/96	6800	1200	<50	510		<10		<50	310	130		<50		<50	<50	<50	<50	<50	<100
MW-501	UG/L	01/21/98	950	260	<5	11		<5		<10	9.3	<5		<5		<5	<5	<5	<5	<5	<10
MW-501	UG/L	08/20/98	NS	NS	NS	NS		NS		NS	NS	NS		NS		NS	NS	NS	NS	NS	NS
MW-501	UG/L	01/26/99	NS	NS	NS	NS		NS		NS	NS	NS		NS		NS	NS	NS	NS	NS	NS
MW-501A	UG/L	08/03/06	24000	6300	32	170	50	6.1	700	84	32	6.2	25	<2		<2	<2	<2	<2	<2	<5
MW-501A	UG/L	11/10/06	13000	3300	<40	100	<40	<40	1100	<1000	<100	<40	<40	<40		<40	<40	<40	<40	<40	<100
MW-501A	UG/L	02/12/07	<13000	3800	<40	130	<40	<40	1100	<1000	<100	<40	44	<40		<40	<40	<40	<40	<40	<100
MW-501A	UG/L	05/11/07	9100	2000	<100	84	<100	<100	640	<2500	<250	<100	24	<100		<100	<100	<100	<100	<100	<250
MW-501A	UG/L	08/10/07	7100	1100	15	49	28	3.1	630	54	<50	3.6	27	<20		<20	<20	<20	<20	<20	<50
MW-501A	UG/L	11/08/07	7700	1400	11	13	13	<6	410	<98	<8.2	<4.6	17	<6.4		<5.4	<6.4	<5.4	<5.6	<5.6	<6
MW-502	UG/L	06/01/88		950	79	62															
MW-502	UG/L	09/01/88		1300	180	2800															
MW-502	UG/L	12/01/88		6500	860	1500															
MW-502	UG/L	03/01/89		5300	1200	1900															
MW-502	UG/L	09/01/94		9800	860	1900															
MW-502	UG/L	12/01/94		8400	1600	1600															
MW-502	UG/L	03/01/95		18000	480	2100															
MW-502	UG/L	09/01/95		15000	690	3300															
MW-502	UG/L	12/13/95	220000	6900	950	3300											6.9	0.89	6.1		
MW-502	UG/L	07/13/96	110000	13000	400	1800		1000						<0.3		<0.3	6.8	<0.3	12	<0.3	<0.3
MW-502	UG/L	12/18/96	30000	11000	<500	2100		<10		<500	<500	<500		<500		<500	<500	<500	<500	<500	<1000

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
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Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-502	UG/L	01/22/98	24000	7800	130	1300			70000		320	300	70	<25		<25	<25	<25	<25	<25	<50
MW-502	UG/L	08/19/98	86000	12000	100	1400			290000		280	340	60	<5		<5	10	<5	<5	<5	<10
MW-502	UG/L	01/26/99	120000	8800	80.4	1030			119000		255	179	47.1	<5		<5	10.4	<5	<5	<5	<10
MW-502	UG/L	07/19/99	48000	11000	<5000	<5000			92000		<50000	<5000	<5000	<5000		<5000	<5000	<5000	<5000	<2500	<2500
MW-502	UG/L	01/13/00	25000	8100	<1000	<1000			8700		<10000	<1000	<1000	<1000		<1000	<1000	<1000	<1000	<500	<500
MW-502	UG/L	08/02/00	23000	6300	100	250			4500		160	<100	<100	<100		<100	<100	<100	<100	<50	<50
MW-502	UG/L	02/07/01	18000	5000	82	230			6500		<500	<50	<50	<50		<50	<50	<50	<50	<50	<25
MW-502	UG/L	07/25/01	24000	6500	170	400			18000		<500	89	<50	<50		<50	<50	<50	<50	<50	<25
MW-502	UG/L	05/09/02	25000	4300	<200	390			14000	<2000000	<2000	<200	<200	<200		<200	<200	<200	<200	<100	<100
MW-502	UG/L	09/26/02	11000	4000	<100	540			9400	<1000000	<1000	100	<100	<100		<100	<100	<100	<100	<50	<50
MW-502	UG/L	10/05/05	15000	900	<100	430	110	<100	15000	<1000	<1000	<100	110	<100		<100	<100	<100	<100	<50	<50
MW-502	UG/L	02/14/06	47600	1280	32	616	182	<50	29300	<100	183	86	139	<50		<50	<50	<50	<50	<50	<50
MW-502	UG/L	08/04/06	20000	2500	38	160	730	<50	29000	790	130	160	98	<2		<2	<2	<2	<2	<2	<5
MW-502	UG/L	11/10/06	35000	1800	51	820	250	<40	19000	<1000	290	110	240	<40		<40	<40	<40	<40	<40	<100
MW-502	UG/L	02/09/07	15000	2200	<400	500	560	<400	23000	<10000	<1000	<400	<400	<400		<400	<400	<400	<400	<400	<1000
MW-502	UG/L	05/11/07	25000	4000	59	500	720	<200	29000	<5000	170	400	250	<200		<200	<200	<200	<200	<200	<500
MW-502	UG/L	08/10/07	<30000	3300	50	420	480	<100	34000	610	92	200	200	<100		<100	<100	<100	<100	<100	<250
MW-502	UG/L	11/08/07	19000	2100	<72	530	140	<60	16000	<980	230	50	100	<64		<54	<64	<54	<54	<56	<60
MW-502	UG/L	02/11/08	26000	3900	52	430	120	<200	27000	<5000	270	30	98	<200		<200	<200	<200	<200	<200	<500
MW-503	UG/L	06/01/88		600	140	340															
MW-503	UG/L	09/01/88		800	280	300															
MW-503	UG/L	12/01/88		1500	570	380															
MW-503	UG/L	03/01/89		400	190	360															
MW-503	UG/L	06/01/89		600	340	630															
MW-503	UG/L	09/01/89		990	550	200															
MW-503	UG/L	12/01/89		270	180	180															
MW-503	UG/L	03/01/90		310	140	140															
MW-503	UG/L	06/01/90		34	24	110															
MW-503	UG/L	09/01/90		170	110	140															
MW-503	UG/L	12/01/90		2100	1300	100															
MW-503	UG/L	03/01/91		900	650	250															
MW-503	UG/L	06/01/91		1040	700	330															
MW-503	UG/L	12/01/92		3300	750	340															
MW-503	UG/L	03/01/93		2900	400	<250															
MW-503	UG/L	12/01/94		240	22	66															
MW-503	UG/L	03/01/95		390	55	100															
MW-503	UG/L	09/01/95		530	93	130															
MW-503	UG/L	12/13/95	8200	340	79	190										1.2	38	15	6.5	1.4	
MW-503	UG/L	07/31/96	5100	150	49	25			<10					90		<0.3	36	15	3.1	<0.3	
MW-503	UG/L	12/18/96	4600	210	19	140			<20		28	63	23	14		<10	40	<10	<10	<20	
MW-503	UG/L	01/21/98	3100	210	31	280			<5		17	5.8	14	<5		27	67	9.6	<5	<10	
MW-503	UG/L	08/19/98	960	72	7.9	53					5.3	5	<5	<5		71	41	<5	<5	<10	
MW-503B	UG/L	02/09/99	10000	970	<50	420					<50	<50	<50	<50		150	110	<50	<50	<100	
MW-503B	UG/L	07/19/99	7800	630	<20	540			<20		<200	<20	<20	<20		250	180	<20	<10	<10	
MW-503B	UG/L	01/14/00	14000	1000	32	870			<20		<200	<20	<20	<20		200	210	<20	<10	<10	
MW-503B	UG/L	08/04/00	5600	610	19	500			<10		23	<10	<10	<10		160	140	<10	<5	<5	
MW-503B	UG/L	02/06/01	5800	250	<20	320			<20		<200	<20	<20	<20		150	84	<20	<10	<10	
MW-503B	UG/L	07/25/01	5700	280	<50	230			<50		<500	<50	<50	<50		57	<50	<50	<25	<25	
MW-503B	UG/L	05/09/02	4500	81	3.5	77			<2	<20000	26	2.5	2.2	<2		23	23	<2	<1	7.7	
MW-503B	UG/L	09/26/02	3300	36	9.6	140			<1	<10000	48	2.5	3.7	<1		16	18	<1	<0.5	10	
MW-503B	UG/L	07/01/04	5900	160	37	89	42	<0.5	<5	<100	42	3J	4J	<5			3J	<5	<5	<5	
MW-503B	UG/L	10/05/05	5400	1100	<20	73	38	<20	<20	<200	<200	<20	<20	<20		<20	<20	<20	<10	<10	
MW-503B	UG/L	02/14/06	5450	331	<50	12	<250	<250	<10	<100	<50	<50	<50	<50		<50	<50	<50	<50	<50	
MW-503B	UG/L	08/04/06	4700	31	<2	3.5	2.1	2	7.6	<50	<5	<2	<2	<2		3.1	7.2	<2	<2	5.8	
MW-503B	UG/L	11/10/06	3500	26	<4	4.7	<4	<4	<10	<100	<10	<4	<4	<4		<4	4.9	<4	<4	<10	
MW-503B	UG/L	02/09/07	1600	59	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		2.2	11	<2	<2	5.4	
MW-503B	UG/L	05/11/07	1800	60	0.58	2.1	1	<2	1.3	<50	1.5	<2	0.61	<2		2.6	17	0.63	0.47	7.4	
MW-503B	UG/L	08/10/07	1800	80	0.62	1.7	1.1	<2	<5	<50	<5	0.23	0.44	<2		2	19	0.48	0.64	7.6	
MW-503B	UG/L	11/08/07	2400	270	3.6	3.7	4.7	<1.2	2.8	<20	11	<0.92	<1	<1.3		<1.1	15	<1.1	<1.1	7	
MW-503B	UG/L	02/11/08	2700	220	3.1	3.4	3.5	<8	3.4	<200	18	<8	<8	<8		1.4	21	<8	<8	6.3	
MW-503B	UG/L	01/21/09	6200	410	14	39	28	<10	<25	<250	36	<10	<10	<10		<10	<10	<10	<10	25	
MW-503B	UG/L	04/27/09	4000	210	11	24	18	<2.9	2.2	<50	29	0.53	2.9	<2		<2	4.8	<2	1.2	25	
MW-503B	UG/L	03/08/10	2800	40	1.4	1.7		<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<0.50	6.7	
MW-503B	UG/L	05/17/10	2900	91	1.0	1.2		<0.50	5.1	<10	1.4	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	1.6	5.7	
MW-503B	UG/L	08/09/10	3700	270	5.3	2.4		0.65	<1.0	<10	3.4	<1.0	1.3	<1.0		<1.0	<1.0	<1.0	3.8	5.4	

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2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-503B	UG/L	11/08/10	12000	940	440	250	800	230	9.6	<10	250	450	170	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	6.1
MW-503B	UG/L	11/08/10	8000	690	320	180	580	170	8.2	<10	97	370	140	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	5.9
MW-503B	UG/L	02/04/11	57000	1400	7700	2900	15000	5900	<1.0	<10	5200	15000	4400	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	4.8	<1.0
MW-503B	UG/L	04/15/11	41000	3400	3200	1800	7200	2600	9.1	63	370	2100	640	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	8.0
MW-503B	UG/L	04/15/11	39000	2200	2500	1400	5200	2000	9.0	64	260	1800	620	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	6.9
MW-503B	UG/L	08/29/11	13000	590	270	440	1300	670	4.4	<10	200	470	150	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<0.50	1.1
MW-503B	UG/L	11/16/11	6700	170	160	220	550	280	<1.0	<10	170	290	96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	01/31/12	5400	250	120	270	580	290	<1.0	<10	150	300	57	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	2.0	<1.0
MW-503B	UG/L	01/31/12	5200	280	120	300	650	330	<1.0	<10	170	340	55	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	2.1	<1.0
MW-503B	UG/L	05/08/12	11000	920	170	820	1800	250	<1.0	<10	150	770	100	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	0.56	2.5
MW-504	UG/L	12/01/93		11000	1300	1800															
MW-504	UG/L	06/01/94		8600	2100	<500															
MW-504	UG/L	12/01/94		5800	700	840															
MW-504	UG/L	03/01/95		5200	1100	1200															
MW-504	UG/L	09/01/95		8000	1300	2200															
MW-504	UG/L	12/13/95	99000	2700	730	800											14		13		
MW-504	UG/L	08/01/96	80000	3400	1400	960			370					<1		0.46	20		4	20	1.1
MW-504	UG/L	12/18/96	33000	6000	2800	1000			<50		2300	5000	2100	<250		<250	<250		<250	<250	<500
MW-504	UG/L	01/21/98	30000	4600	940	750			<250		360	800	340	<250		<250	<250		<250	<250	<500
MW-504	UG/L	08/20/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	01/28/99	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	07/19/99	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	01/10/00	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	07/31/00	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	02/06/01	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	07/24/01	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	05/06/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	09/23/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-504	UG/L	02/16/06	18000	675	76	262	391	120	13	<100	82	152	106	<50		<50	<50		<50	<50	<50
MW-504	UG/L	08/03/06	10000	1500	51	150	360	130	9.3	<50	54	98	90	<2		<2	2		<2	3.9	<5
MW-504	UG/L	11/10/06	6200	1000	<40	130	220	<40	<100	<1000	<100	49	98	<40		<40	<40		<40	<40	<100
MW-504	UG/L	02/09/07	6100	140	<2	13	120	8.5	<5	98	49	38	64	<2		<2	<2		<2	<2	<5
MW-504	UG/L	05/11/07	13000	1500	7.2	230	390	11	<100	<1000	80	130	110	<40		<40	<40		<40	<40	<100
MW-504	UG/L	08/10/07	7100	1200	6.6	130	340	6.8	5.1	<500	54	95	89	<20		<20	<20		<20	<20	<50
MW-504	UG/L	11/08/07	4700	960	7.5	120	260	7	4.9	<49	27	85	100	<3.2		<2.7	<3.2		<2.7	<2.8	<3
MW-504	UG/L	02/08/08	6200	760	7.5	110	230	16	6.4	110	84	89	110	<20		<20	<20		<20	3.9	<50
MW-600	UG/L	08/01/90	380000																		
MW-600	UG/L	02/20/91	50.2	18000	9200	1300															
MW-600	UG/L	12/13/95	3500000	23000	40000	18000															
MW-600	UG/L	08/01/96	210000	14000	15000	3500			<10					<1		<1	3.8		0.36	5.5	<1
MW-600	UG/L	12/19/96	87000	14000	15000	1800			<10		<500	1800	580	<500		<500	<500		<500	<500	<1000
MW-600	UG/L	01/22/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600	UG/L	08/20/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600	UG/L	01/28/99	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	07/19/99	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	01/10/00	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	07/31/00	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	02/06/01	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	07/24/01	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	05/06/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	09/23/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601	UG/L	08/01/90	360000																		
MW-601	UG/L	02/20/91	24	12000	4900	1900															
MW-601	UG/L	12/13/95	3500000	18000	17000	130000															
MW-601	UG/L	08/01/96	250000	12000	1400	4600			<10					<1		<1	4.4		1.4	2.9	1.9
MW-601	UG/L	12/19/96	70000	10000	<500	1600			<10		<500	1100	<500	<500		<500	<500		<500	<500	<1000
MW-601	UG/L	01/22/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601	UG/L	08/20/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601	UG/L	01/28/99	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601A	UG/L	07/19/99	42000	18000	<5000	<5000			11000		<50000	<5000	<5000	<5000		<5000	<5000		<5000	<2500	<25000
MW-601A	UG/L	01/13/00	48000	22000	<1000	<1000			22000		<10000	<1000	<1000	<1000		<1000	<1000		<500	<1000	<500
MW-601A	UG/L	08/03/00	34000	21000	<200	<200			5600		69	<200	<200	<200		<200	<200		<200	<100	<100

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-601A	UG/L	02/07/01	35000	16000	63	97			1200		<500	<50	<50	<50	<50	<50	<50	<50	<25	<25	<25
MW-601A	UG/L	07/24/01	31000	15000	<100	110			2800		<100	<100	<100	<100	<100	<100	<100	<100	<100	<50	<50
MW-601A	UG/L	05/09/02	28000	12000	<100	<100			3500	NS	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<50	<50
MW-601A	UG/L	09/26/02	11000	8000	<100	590			4000	NS	<1000	<100	<100	<100	<100	<100	<100	<100	<100	<50	<50
MW-603	UG/L	12/01/95	<500	0.98	1.4	0.62															
MW-603	UG/L	07/30/96	<100	0.6	<0.5	1.4			2					53		<0.3	6.4		3.9	9.5	0.45
MW-603	UG/L	12/16/96	<100	<5	<5	<5			<2		<5	<5	<5	37		<5	<5		<5	<5	<10
MW-603	UG/L	01/22/98	<100	<5	<5	<5			<5		<10	<5	<5	59		<5	9		5	<5	<10
MW-603	UG/L	08/19/98	<100	<5	<5	<5			<5		<10	<5	<5	13		<5	<5		<5	29	<10
MW-603	UG/L	01/27/99	<100	<5	<5	<5			<5		<10	<5	<5	25		<5	5.3		<5	39	<10
MW-603	UG/L	07/19/99	<500	<0.5	<1	<1			<1		<10	<1	<1	37		<1	7.4		3	40	<0.5
MW-603	UG/L	01/11/00	<500	<0.5	<1	<1			<1		<1	<1	<1	56		<1	6.4		3.6	16	<0.5
MW-603	UG/L	07/31/00	<500	<0.5	<1	<1			<1		<1	<1	<1	95		<1	9.3		6.7	7.2	0.71
MW-603	UG/L	02/07/01	<500	<0.5	<1	<1			<1		<1	<1	<1	89		2.8	11		8.5	2.7	0.96
MW-603	UG/L	07/24/01	190	<0.5	<1	<1			<1		<1	<1	<1	110		8.3	15		10	2.9	<0.5
MW-603	UG/L	05/07/02	210	<1	<2	<2			<2	<20000	<20	<2	<2	170		3.4	9.6		7	<1	<1
MW-603	UG/L	09/24/02	<100	<1	<2	<2			<2	<20000	<20	<2	<2	210		5.3	14		11	3.2	1.6
MW-603	UG/L	07/01/04	<200	<5	0.3J	<0.5	<0.5	<0.5	<5	<100	2J	<5	<5	120		3J	12		5.7	3J	<5
MW-603	UG/L	10/06/05	150	0.82	<1	<1	<1	<1	<1	<10	<10	<1	<1	160		7.3	22		8	12	1.6
MW-603	UG/L	02/14/06	245	<1	<5	<5	<5	<5	1.7	18	<5	<5	<5	103		3.5	17		6	28	<5
MW-603	UG/L	08/01/06	190	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	150		3.7	22		7.1	8	<5
MW-603	UG/L	11/07/06	150	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	170		3.3	21		6.3	14	<5
MW-603	UG/L	02/06/07	120	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	140		2.7	19		6	17	<5
MW-603	UG/L	08/07/07	<110	0.28	<2	<2	<2	<2	<5	<50	<5	<2	<2	140		2.6	17		5.5	6.4	0.79
MW-603	UG/L	11/05/07	120	0.31	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0.26	120		2.6	16		5	3.8	1.2
MW-603	UG/L	02/04/08	120	<2	<2	<2	<2	<2	<5	<1	<5	<2	<2	110		2.5	15		3.9	2.2	<5
MW-603	UG/L	01/13/09	75	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	74		2.8	17		4.4	5.6	<5
MW-603	UG/L	04/21/09	59	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	90		2.4	17		3.8	2	0.99
MW-604	UG/L	12/20/95	1900	160	3.3	7.8															
MW-604	UG/L	07/30/96	900	73	7.8	<0.5			12.4					<0.3		<0.3	0.98		1.7	1.1	<0.3
MW-604	UG/L	12/17/96	710	47	<2	<2			<2		<2	<2	<2	<2		<2	<2		<2	<2	<4
MW-604	UG/L	01/22/98	410	7	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-604	UG/L	08/19/98	370	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-604	UG/L	01/27/99	230	25	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-604	UG/L	07/19/99	500	14	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-604	UG/L	01/11/00	750	21	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	0.99	<0.5
MW-604	UG/L	08/03/00	560	100	<1	<1			30		<10	<1	<1	<1		<1	8.7		<1	<0.5	<0.5
MW-604	UG/L	02/07/01	1100	110	<5	<5			31		<50	<5	<5	<5		<5	<5		<5	<2.5	6.8
MW-604	UG/L	07/24/01	1100	67	<1	<1			34		<10	<1	<1	<1		<1	<5		<1	<5	<0.5
MW-604	UG/L	05/08/02	1400	57	<1	<1			48	NS	<10	<1	<1	<1		<1	<1		<1	<5	5.3
MW-604	UG/L	09/25/02	970	36	<1	<1			84	NS	<10	<1	1.3	<1		<1	<1		<1	<5	4.8
MW-604	UG/L	11/08/06	330	7.2	<2	<2	<2	<2	15	65	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-604	UG/L	02/07/07	540	9.8	<2	<2	<2	<2	20	60	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-604	UG/L	05/08/07	480	4.4	0.38	<2	0.81	0.48	18	57	<5	0.48	0.26	<2		<2	<2		<2	<2	0.87
MW-604	UG/L	08/07/07	290	1.3	<2	<2	0.74	0.46	18	44	<5	0.23	<2	<2		<2	<2		<2	<2	<5
MW-604	UG/L	11/05/07	500	1.2	0.36	<0.25	0.85	0.49	23	50	0.55	0.41	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	0.69
MW-605	UG/L	12/20/95	<1000	10	<0.5	<0.5															
MW-605	UG/L	07/31/96	<100	<0.5	<0.5	<0.5			<20					13		<0.3	<0.3		1.2	<0.3	<0.3
MW-605	UG/L	12/16/96	<100	<1	<1	<1			<2		<1	<1	<1	11		<1	<1		<1	<1	<2
MW-605	UG/L	01/22/98	<100	<5	<5	<5			<5		<10	<5	<5	14		<5	<5		<5	<5	<10
MW-605	UG/L	08/19/98	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-605	UG/L	01/28/99	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-605	UG/L	07/19/99	<500	<0.5	<1	<1			<1		<10	<1	<1	1.6		3.2	<1		<1	<0.5	<0.5
MW-605	UG/L	01/11/00	<600	<0.5	<1	<1			<1		<10	<1	<1	7		<1	<1		1	<0.5	<0.5
MW-605	UG/L	08/02/00	<700	<0.5	<1	<1			<1		<10	<1	<1	22		<1	<1		1.6	<0.5	<10
MW-605	UG/L	02/07/01	<800	<0.5	<1	<1			<1		<10	<1	<1	7.1		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	07/24/01	<100	<0.5	<1	<1			<1		<10	<1	<1	26		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	05/07/02	<200	<0.5	<1	<1			<1	<10000	<10	<1	<1	19		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	09/24/02	<300	<0.5	<1	<1			<1	<10000	<10	<1	<1	13		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	06/30/04	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<100	<5	<5	<5	5J		<5	<5		<5	<5	<5
MW-605	UG/L	10/05/05	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	4.5		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	10/05/05	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	4.3		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	02/14/06	53	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	5.3		<5	<5		<5	<5	<5
MW-605	UG/L	02/14/06	<50	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	4.2		<5	<5		<5	<5	<5

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-605	UG/L	08/01/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	8.5		<2	<2		<2	<2	<5
MW-605	UG/L	08/01/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	9.2		<2	<2		<2	<2	<5
MW-605	UG/L	11/07/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	20		<2	<2		<2	<2	<5
MW-605	UG/L	11/07/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	21		<2	<2		<2	<2	<5
MW-605	UG/L	02/06/07	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	35		<2	<2		<2	<2	<5
MW-605	UG/L	05/08/07	35	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	40		<2	<2	1.6	0.68	<2	<5
MW-605	UG/L	05/08/07	38	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	45		<2	<2	1.6	0.74	<2	<5
MW-605	UG/L	08/07/07	30	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	37		<2	<2	1.2	0.77	<2	<5
MW-605	UG/L	11/05/07	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0.26	20		<0.27	0.84		0.53	<0.28	<0.3
MW-605	UG/L	02/04/08	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	20		<2	<2	1.1	0.62	<2	<5
MW-605	UG/L	02/04/08	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	21		<2	<2	1.1	0.67	<2	<5
MW-606	UG/L	12/19/95	<500	<0.5	<0.5	<0.5															
MW-606	UG/L	07/31/96	<100	<0.5	<0.5	<0.5			<20					<0.3		<0.3	<0.3		<0.3	0.96	<0.3
MW-606	UG/L	12/16/96	<100	<1	<1	<1			<2		<1	<1	<1	<1		<1	<1		<1	<1	<2
MW-606	UG/L	01/22/98	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-606	UG/L	08/19/98	170	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-606	UG/L	01/28/99	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-606	UG/L	07/19/99	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	01/11/00	<500	<0.5	<1	<1			1.2		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	08/02/00	<500	<0.5	<1	<1					<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	02/07/01	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	07/24/01	<100	<0.5	<1	<1					<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	05/07/02	<100	<0.5	<1	<1			<100	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	09/24/02	<100	<0.5	<1	<1			<100	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	06/30/04	<200	<0.5	<0.5	<0.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5		<5	<5		<5	<5	<5
MW-606	UG/L	10/05/05	240	5.6	<1	<1	<1	<1	4.8	42	<10	<1	<1	<1		<1	<1		<1	<0.5	3.2
MW-606	UG/L	02/14/06	<50	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5		<5	<5		<5	<5	<5
MW-606	UG/L	08/01/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	11/07/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	02/06/07	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	05/08/07	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	08/07/07	<50	<2	<2	<2	<2	<2	0.9	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	11/05/07	<30	<0.28	<0.36	<0.25	<0.6	<0.3	0.32	<4.9	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
MW-606	UG/L	02/04/08	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	01/13/09	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	04/21/09	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	12/19/95	1200	33	35	1.7															
MW-607	UG/L	07/31/96	900	19	5	2.8			12					<0.3		<0.3	<0.3		0.68	<0.3	1.1
MW-607	UG/L	12/17/96	1000	21	<1	<1			<2		2	<1	1.7	<1		<1	<1		<1	<1	<2
MW-607	UG/L	01/22/98	1200	220	<25	<25			400		<50	<25	<25	<25		<25	<25		<25	220	<50
MW-607	UG/L	08/19/98	260	17	<5	<5			12		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-607	UG/L	01/27/99	1760	220	<5	<5			6.2		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-607	UG/L	07/19/99	1200	260	<5	<5			<5		<50	<5	<5	<5		<5	<5		<5	<2.5	<2.5
MW-607	UG/L	01/11/00	1200	170	<2	<2			4.5		<20	<2	<2	<2		<2	<2		<2	<1	<1
MW-607	UG/L	07/31/00	540	110	<2	<2			6.2		<10	<2	<2	<2		<2	<2		<2	<1	1.1
MW-607	UG/L	02/07/01	50	12	<1	<1			<1		<10	<1	<1	<1		<1	1.1		<1	<0.5	0.55
MW-607	UG/L	07/24/01	590	13	<1	<1			<1		<10	<1	<1	<1		<1	1.4		<1	<0.5	<0.5
MW-607	UG/L	05/07/02	490	5.4	<1	<1			<1	91000	<10	<1	<3	<1		<1	1.7		<1	<0.5	<0.5
MW-607	UG/L	09/24/02	110	<0.5	<1	<1			4.2	76000	<10	<1	<3	<1		<1	2		<1	<0.5	<0.5
MW-607	UG/L	06/30/04	540	10	<0.5	<0.5	1.4	<0.5	4J	50J	<5	<5	3J	<5		<5	<5		<5	<5	3J
MW-607	UG/L	10/05/05	760	1.2	<1	<1	<1	<1	1.7	74	<10	<1	<1	<1		<1	<1		<1	<0.5	1.2
MW-607	UG/L	02/14/06	373	<1	<5	<5	<5	<5	2.1	57	<5	<5	<5	<5		<5	<5		<5	<5	1
MW-607	UG/L	08/01/06	350	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	11/07/06	210	<2	<2	<2	<2	<2	<5	77	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	02/06/07	590	<2	<2	<2	<2	<2	<5	130	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	05/08/07	330	<2	<2	<2	<2	<2	2.3	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	08/07/07	320	0.5	<2	<2	<2	<2	4	120	<5	<2	<2	<2		<2	<2		0.33	0.53	1.2
MW-607	UG/L	11/05/07	440	0.5	<0.36	<0.25	<0.6	<0.3	3.1	140	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		0.29	0.38	0.99
MW-607	UG/L	02/04/08	790	<2	<2	<2	<2	<2	5.6	230	2.8	0.45	<2	<2		<2	<2		0.4	0.53	1.3
MW-701	UG/L	02/04/11	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	4.3	1.6	9.5	1.7	<1.0	<0.50	<1.0
MW-701	UG/L	04/11/11	230	1.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	14	2.3	14	3.8	1.0	<0.50	6.0
MW-701	UG/L	08/30/11	190	2.5	<0.50	<0.50	<1.0	<0.50	<1.0	19	<1.0	<1.0	<1.0	<1.0	14	2.3	9.0	3.4	<1.0	<0.50	5.2
MW-701	UG/L	08/30/11	290	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	11	2.0	7.7	2.8	<1.0	<0.50	4.0
MW-701	UG/L	11/16/11	310	2.5	0.62	1.4	3.5	1.8	<1.0	<10	7.6	3.4	<1.0	1.3	13	13	<1.0	4.6	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-701	UG/L	02/01/12	300	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	8.9	3.8	14	4.3	<1.0	<0.50	<1.0
MW-701	UG/L	05/11/12	260	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	15	3.8	14	<1.0	<1.0	<0.50	5.5
MW-702	UG/L	02/04/11	2300	91	0.74	0.92	<1.0	<0.50	<1.0	<10	5.2	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	04/12/11	910	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	32	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	1.3	<0.50	1.1
MW-702	UG/L	08/30/11	260	15	<0.50	<0.50	<1.0	<0.50	<1.0	59	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	1.1
MW-702	UG/L	11/16/11	1400	99	0.59	0.51	<1.0	<0.50	<1.0	<10	2.9	<1.0	1.0	<1.0	<1.0	<1.0	2.5	<1.0	1.2	<0.50	<1.0
MW-702	UG/L	02/09/12	1400	480	1.3	0.65	<1.0	<0.50	<1.0	<10	3.4	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	02/09/12	1500	470	1.3	0.71	<1.0	<0.50	<1.0	<10	3.3	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	05/11/12	6000	2700	2.7	1.0	1.4	0.85	<1.0	<10	4.2	<1.0	4.4	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	02/04/11	1300	33	1.3	5.2	2.8	<0.50	<1.0	<10	1.6	1.8	<1.0	<1.0	2.0	<1.0	18	3.6	<1.0	<0.50	<1.0
MW-703	UG/L	04/12/11	1100	76	1.4	7.8	4.8	<0.50	<1.0	<10	<1.0	2.7	<1.0	<1.0	2.6	<1.0	10	1.7	<1.0	<0.50	<1.0
MW-703	UG/L	08/30/11	2100	170	3.4	20	8.5	<0.50	3.3	50	<1.0	2.4	1.1	<1.0	1.1	<1.0	8.7	<1.0	<1.0	<0.50	1.3
MW-703	UG/L	11/17/11	1400	150	3.4	21	4.7	<0.50	<1.0	<10	<1.0	2.2	1.0	<1.0	<1.0	<1.0	9.2	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	11/17/11	1700	170	3.8	25	5.6	<0.50	<1.0	<10	<1.0	2.5	1.2	<1.0	<1.0	<1.0	8.8	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	02/14/12	470	48	0.72	1.4	1.9	<0.50	<1.0	<10	1.1	<1.0	<1.0	<1.0	2.6	1.0	28	3.0	<1.0	<0.50	2.5
MW-703	UG/L	05/11/12	500	10	<0.50	0.55	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<0.50	1.1
MW-704	UG/L	02/09/11	27000	1800	2000	610	3600	680	210	<10	120	1200	520	<1.0	2.3	<1.0	2.5	<1.0	1.2	38	<1.0
MW-704	UG/L	02/09/11	26000	1900	2400	620	3700	720	430	<10	96	1300	550	<1.0	<1.0	<1.0	2.5	<1.0	1.3	40	<1.0
MW-704	UG/L	04/13/11	5400	170	110	200	190	68	73	<10	38	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	6.0	7.0	2.0
MW-704	UG/L	08/31/11	11000	570	600	300	540	180	180	160	58	410	170	<1.0	<1.0	<1.0	3.8	<1.0	3.5	25	1.5
MW-704	UG/L	09/01/11	2200	1200	95	92	1500	170	17	46	87	160	35	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<0.50	4.6
MW-704	UG/L	11/17/11	10000	550	430	420	520	180	190	<10	37	490	210	<1.0	<1.0	<1.0	3.4	<1.0	3.9	18	<1.0
MW-704	UG/L	02/14/12	7700	310	89	390	530	95	100	73	50	500	210	<1.0	<1.0	<1.0	5.3	<1.0	5.7	5.9	3.1
MW-704	UG/L	02/14/12	7800	320	89	410	560	96	130	80	53	510	220	<1.0	<1.0	<1.0	4.5	<1.0	4.9	6.2	2.3
MW-704	UG/L	05/14/12	11000	450	250	360	520	99	130	45	61	410	150	<1.0	<1.0	<1.0	2.8	<1.0	3.3	12	1.2
MW-704	UG/L	05/14/12	9000	460	260	360	530	98	140	56	77	420	150	<1.0	<1.0	<1.0	3.0	<1.0	3.4	12	1.2
MW-705	UG/L	02/04/11	3100	450	3.5	5.1	6.4	0.54	90	94	6.7	<1.0	1.3	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	04/12/11	930	55	0.87	1.7	1.6	<0.50	22	31	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	08/31/11	1300	79	1.4	3.3	2.3	<0.50	13	66	<1.0	1.9	1.3	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	0.56	1.2
MW-705	UG/L	11/17/11	1100	56	7.6	24	29	6.3	73	<10	38	31	9.8	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	02/14/12	410	52	1.2	7.0	7.8	0.66	250	240	3.3	8.1	3.8	<1.0	<1.0	<1.0	8.9	1.3	<1.0	<0.50	1.8
MW-705	UG/L	02/14/12	440	49	0.86	5.6	5.7	<0.50	250	230	<1.0	5.0	2.6	<1.0	<1.0	<1.0	8.3	1.3	<1.0	<0.50	1.5
MW-705	UG/L	05/14/12	600	27	1.2	2.8	5.6	0.76	64	49	12	5.9	2.0	<1.0	<1.0	<1.0	7.4	1.4	<1.0	<0.50	<1.0
MW-705	UG/L	05/14/12	610	36	<0.50	2.1	5.6	<0.50	60	33	<1.0	1.1	<1.0	<1.0	1.0	<1.0	8.3	1.8	<1.0	<0.50	<1.0
MW-706	UG/L	02/04/11	390	4.9	0.57	<0.50	<1.0	<0.50	4.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	04/11/11	540	9.0	<0.50	<0.50	<1.0	<0.50	5.9	89	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	<0.50	2.6
MW-706	UG/L	08/31/11	1100	25	0.86	0.65	1.9	<0.50	5.4	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	1.9
MW-706	UG/L	11/18/11	490	9.5	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	02/14/12	350	16	<0.50	<0.50	<1.0	<0.50	4.4	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	<0.50	2.5
MW-706	UG/L	05/14/12	1300	22	1.0	0.95	2.6	0.50	6.8	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<0.50	1.5
MW-706	UG/L	05/14/12	1500	23	1.0	1.0	2.6	0.53	7.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<0.50	1.6
MW-707	UG/L	02/04/11	2000	520	120	7.6	120	150	15	<10	<1.0	10	7.8	4.1	8.7	<1.0	7.0	6.9	<1.0	2.7	<1.0
MW-707	UG/L	04/08/11	7000	1000	560	180	670	310	15	<10	26	74	27	<1.0	3.2	<1.0	8.7	1.6	<1.0	4.0	<1.0
MW-707	UG/L	11/18/11	8300	930	120	55	1900	120	<1.0	<10	150	250	53	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	02/01/12	10000	1200	150	100	1100	96	<1.0	<10	110	220	69	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	05/15/12	9700	1000	200	82	870	74	15	12	120	190	42	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	2.3
MW-708	UG/L	02/04/11	530000	1400	420	3000	8100	13	330	<10	370	2200	92	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	09/01/11	38000	1900	230	1200	2200	54	2300	2500	150	440	430	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	11/18/11	18000	1100	62	630	860	30	1000	<100	180	940	390	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	02/10/12	18000	1700	74	770	1000	38	830	<10	170	1100	410	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	05/15/12	57000	870	39	550	750	18	450	120	110	430	380	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.86	<1.0
MW-709	UG/L	02/04/11	500	16	1.0	<0.50	4.8	1.1	2.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	04/06/11	580	26	0.86	0.89	4.1	0.72	4.6	<10	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	09/01/11	9900	1.1	<0.50	0.91	4.6	1.2	7.6	60	<1.0	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	11/21/11	1100	<0.50	<0.50	0.77	2.1	0.75	6.4	<10	4.6	1.4	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	02/10/12	760	<0.50	<0.50	<0.50	<1.0	<0.50	4.4	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	05/16/12	920	<0.50	<0.50	<0.50	<1.0	<0.50	4.7	20	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-710	UG/L	02/08/11	93	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	55	93	2.9	14	41	3.1	0.81	1.3

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-710	UG/L	02/08/11	110	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	54	89	2.9	14	41	3.1	<0.50	1.2
MW-710	UG/L	04/07/11	<50	0.81	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	72	4.1	19	56	4.9	1.5	2.0
MW-710	UG/L	04/07/11	100	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	82	92	4.0	18	54	4.7	1.5	1.9
MW-710	UG/L	09/02/11	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	58	<1.0	<1.0	<1.0	76	100	2.2	18	54	4.6	1.2	1.3
MW-710	UG/L	09/02/11	380	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	97	2.0	17	50	4.3	1.2	1.1
MW-710	UG/L	11/21/11	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	51	71	1.5	13	35	3.6	<0.50	<1.0
MW-710	UG/L	11/21/11	79	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	52	71	1.5	13	34	3.4	<0.50	<1.0
MW-710	UG/L	02/01/12	170	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	66	110	2.1	23	71	6.0	<0.50	<1.0
MW-710	UG/L	05/16/12	130	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	53	77	1.2	19	48	4.4	<0.50	<1.0
MW-711	UG/L	02/08/11	11000	520	440	120	380	250	11	<10	260	180	110	<1.0	8.4	<1.0	4.5	<1.0	<1.0	<0.50	7.5
MW-711	UG/L	04/06/11	7100	<0.50	<0.50	65	160	50	20	<10	420	52	36	<1.0	1.1	<1.0	2.6	<1.0	<1.0	<0.50	8.7
MW-711	UG/L	09/02/11	44000	1600	1800	650	3000	1100	25	<10	620	1800	550	<1.0	<1.0	1.3	3.8	<1.0	<1.0	<0.50	17
MW-711	UG/L	11/21/11	14000	370	290	530	1800	790	<1.0	<10	880	480	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	02/10/12	23000	1900	2100	440	1800	770	14	<10	360	480	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	05/16/12	25000	2900	3200	730	3000	1200	14	<10	370	<1.0	300	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	5.9
MW-712	UG/L	02/09/11	14000	1200	520	380	1800	390	23	<10	98	460	170	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	04/07/11	94	860	140	270	1100	170	32	<10	140	580	220	<1.0	1.8	<1.0	3.4	<1.0	<1.0	0.64	2.2
MW-712	UG/L	09/02/11	6300	440	77	100	350	72	19	<10	43	180	76	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	0.71	<1.0
MW-712	UG/L	11/21/11	8000	600	60	90	310	60	<1.0	<10	65	140	72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	02/13/12	8300	850	57	62	180	46	21	94	24	86	44	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<0.50	1.7
MW-712	UG/L	05/17/12	8400	650	130	180	740	150	86	22	44	240	77	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	1.1
MW-713	UG/L	02/09/11	280	29	<0.50	<0.50	1.7	<0.50	3.5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	04/08/11	1000	150	<0.50	0.91	1.6	<0.50	75	120	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	09/02/11	310	73	3.0	1.7	7.8	3.6	71	100	11	7.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/11	3300	900	1.6	3.4	12	2.6	230	220	2.2	2.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/11	3500	800	1.9	3.8	14	2.9	230	230	2.7	2.4	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	02/13/12	5500	1900	2.2	4.6	9.8	2.5	390	160	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	05/17/12	5100	2300	2.3	5.3	6.0	1.3	400	110	3.6	1.1	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	02/14/11	370	1.3	<0.50	<0.50	<1.0	<0.50	10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	04/07/11	16000	16	4.0	2.1	11	1.9	16	<10	23	4.7	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	09/02/11	500	3.8	<0.50	<0.50	1.1	<0.50	9.7	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/11	430	9.0	<0.50	<0.50	<1.0	<0.50	8.4	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/11	490	4.7	<0.50	<0.50	<1.0	<0.50	7.9	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	02/13/12	730	5.0	0.72	<0.50	1.1	<0.50	8.4	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	02/13/12	760	3.9	<0.50	<0.50	<1.0	<0.50	7.1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	05/18/12	390	2.4	<0.50	<0.50	<1.0	<0.50	7.1	<10	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	02/14/11	2000	480	12	1.7	24	7.4	2.8	<10	<1.0	2.6	4.2	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	04/08/11	1500	310	5.6	1.0	3.6	1.6	8.8	<10	3.8	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	09/02/11	5500	800	2.5	4.0	12	5.3	8.2	22	5.0	4.5	4.8	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.56	1.9
MW-715	UG/L	09/02/11	1100	420	1.4	2.2	6.1	2.5	7.9	20	3.8	2.5	4.6	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.53	1.2
MW-715	UG/L	11/22/11	1500	450	1.5	6.0	<1.0	<0.50	8.5	11	3.5	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	02/01/12	860	270	2.6	1.7	5.6	1.1	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	05/18/12	13000	2100	19	1100	1900	350	4.3	<10	230	930	270	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	2.1
MW-A	UG/L	02/20/91	49.8	17000	14000	1800															
MW-B	UG/L	02/25/91	<1000	3500	30	180															
MW-C	UG/L	03/31/95	60	0.6	14	<0.5															
MW-C	UG/L	07/11/95	<50	<0.3	<0.3	<0.3															
MW-C	UG/L	10/05/95	<500	<0.3	<0.3	<0.3															
MW-C	UG/L	12/08/95	<500	<0.3	<0.3	<0.3															
MW-C	UG/L	03/07/96	<500	<0.5	<0.5	<0.5															
MW-C	UG/L	06/17/96	<500	<0.5	<0.5	<0.5			<20												
MW-D	UG/L	03/31/95	<50	<0.5	6.6	<0.5															
MW-D	UG/L	07/11/95	<50	<0.3	<0.3	<0.3															
MW-D	UG/L	10/05/95	<500	<0.3	<0.3	<0.3															
MW-D	UG/L	12/08/95	<500	<0.3	<0.3	<0.3															
MW-D	UG/L	03/07/96	<500	<0.5	<0.5	<0.5															
MW-D	UG/L	06/17/96	<500	<0.5	<0.5	<0.5			<20												

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-E	UG/L	03/31/95	60	9.1	6.6	1.1															
MW-E	UG/L	07/11/95	<50	<0.3	<0.3	<0.3															
MW-E	UG/L	10/05/95	<500	<0.3	<0.3	<0.3															
MW-E	UG/L	12/08/95	<500	<0.3	<0.3	<0.3															
MW-E	UG/L	03/07/96	<500	<0.5	<0.5	<0.5															
MW-E	UG/L	06/17/96	<500	<0.5	<0.5	<0.5			<20												
MW-I	UG/L	02/19/91	11000	9200	2400	1500															
W-1	UG/L	11/01/89		390	3.9	2.1								<0.5A		<0.5A			3.5A	<0.5A	21
W-1	UG/L	03/01/90		140	<5	<5								<5		<10			<5	<5	<20
W-1	UG/L	04/01/90		200	12	12								<5		<5	<25		1.6	<5	<5
W-1	UG/L	12/18/96	800	78	<5	<5			<10		10	<5	<5	<5		<5	<5		<5	<5	<10
W-1	UG/L	01/14/98	1100	62	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-1	UG/L	08/20/98	1200	79	<5	<5			14		<10	<5	<5	<5		<5	8.6		8.4	<5	26
W-1	UG/L	01/29/99	1400	57	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	18
W-1	UG/L	07/19/99	1500	48	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-1	UG/L	08/03/00	880	29	<1	<1			10		<10	<1	<1	<1		<1	1.6		1.6	<0.5	7.3
W-1	UG/L	02/08/01	<500	21	<1	<1			68		<10	<1	<1	<1		<1	2.3		<1	<0.5	6.3
W-1	UG/L	07/26/01	620	18	<1	<1			62		<10	<1	<1	<1		<1	2.8		1.8	<0.5	6.8
W-1	UG/L	05/08/02	280	7.7	<1	<1			5.9	44000	<10	<1	<1	<1		<1	3.1		<1	<0.5	6.4
W-1	UG/L	09/25/02	210	12	<1	<1			1.9	30000	<10	<1	<1	<1		<1	6.5		<1	<0.5	14
W-1	UG/L	07/01/04	460	14	2.8	1.5	<0.5	<0.5	31	<100	<5	<5	<5	<5		41	9.3		11	<5	2
W-1	UG/L	10/06/05	310	43	<1	<1	<1	<1	25	34	<10	<1	<1	<1		1.6	<1		<1	<0.5	7.1
W-1	UG/L	02/15/06	266	32	<5	<5	<5	<5	22	37	<5	<5	<5	<5		1.3	<5		<5	<5	3.3
W-1	UG/L	08/03/06	1100	86	<2	<2	<2	<2	77	100	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	11/09/06	470	100	<2	<2	<2	<2	65	78	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	02/08/07	500	77	<2	<2	<2	<2	21	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	05/10/07	890	110	0.57	0.61	<2	0.32	28	43	1	<2	<2	<2		0.42	<2		<2	<2	1.8
W-1	UG/L	08/09/07	1100	140	0.84	0.84	<2	0.63	64	84	1.1	<2	<2	<2		0.47	<2		0.32	<2	1.9
W-1	UG/L	11/07/07	1200	140	1.6	1.2	0.68	0.91	56	80	1.6	0.38	2.1	<0.32		0.7	<0.32		<0.27	<0.28	1.2
W-1	UG/L	02/07/08	1000	96	<2	<2	<2	<2	31	51	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	01/20/09	230	15	<2	<2	<2	<2	3.1	23	<5	<2	<2	<2		0.87	<2		0.58	<2	2.8
W-1	UG/L	01/20/09	220	19	<2	<2	<2	<2	3.9	35	<5	<2	<2	<2		1.1	0.4		0.61	<2	3.7
W-1	UG/L	04/24/09	180	3.9	<2	<2	<2	<2	<5	26	<5	<2	<2	<2		1.4	<2		0.74	<2	9.5
W-1	UG/L	03/05/10	270	3.3	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.3
W-1	UG/L	05/13/10	260	9.3	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.2
W-1	UG/L	08/06/10	260	17	<0.50	<0.50	<0.50	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-1	UG/L	11/05/10	150	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	02/04/11	200	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	04/14/11	150	1.4	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	08/26/11	130	3.9	<0.50	<0.50	<1.0	<0.50	1.3	16	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<0.50	6.4
W-1	UG/L	11/14/11	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	11/14/11	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	02/06/12	160	18	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<0.50	2.4
W-1	UG/L	05/07/12	680	15	<0.50	<0.50	<1.0	<0.50	<1.0	23	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<0.50	1.8
W-10	UG/L	11/08/06	26000	8200	5000	570	2100	820	<100	<1000	340	360	110	<40		<40	<40		<40	<40	<100
W-10	UG/L	02/09/07	28000	6400	2200	520	2200	710	<500	<5000	<500	280	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	02/09/07	26000	5100	1600	410	1800	570	<500	<5000	<500	260	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	05/11/07	7900	430	140	100	480	130	<10	84	100	130	48	<4		<4	6		8.2	1.2	3.6
W-10	UG/L	05/11/07	7800	500	160	110	540	150	<25	85	150	150	53	<10		<10	6.6		8.8	1.4	3.9
W-10	UG/L	08/09/07	5400	590	20	82	330	40	<25	68	59	90	33	<10		<10	6.4		8	<10	3
W-10	UG/L	11/09/07	<12000	4700	460	330	1300	240	<32	<490	240	190	55	<32		<27	<32		<27	<28	<30
W-10	UG/L	02/08/08	<28000	7200	280	300	1300	190	<500	<5000	140	140	38	<200		<200	<200		<200	<200	<500
W-10	UG/L	02/08/08	<25000	7600	310	330	1400	200	<500	<5000	170	150	42	<200		<200	<200		<200	<200	<500
W-10	UG/L	01/21/09	20000	8100	<200	440	1400	<200	<500	<5000	<500	230	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	04/27/09	16000	7400	<200	490	1400	<200	<500	<5000	270	230	36	<200		<200	<200		<200	<200	<500
W-10	UG/L	04/27/09	15000	5100	<200	350	830	<200	<500	<5000	220	190	31	<200		<200	<200		<200	<200	<500
W-10	UG/L	03/08/10	8600	3100	<250	<250	<250	<250	<500	<5000	<500	<500	<500	<500		<500	<500		<500	<250	<500
W-10	UG/L	03/08/10	12000	4200	4.4	200		1.6	<1.0	<10	110	93	18	<1.0		<1.0	<1.0		<1.0	7.3	<1.0
W-10	UG/L	05/17/10	10000	2900	10	160		1.7	<1.0	15	110	82	14	<1.0		<1.0	<1.0		<1.0	4.2	<1.0
W-10	UG/L	05/17/10	9500	3900	7.4	230		1.9	<1.0	<10	130	70	13	<1.0		<1.0	<1.0		<1.0	2.7	<1.0
W-10	UG/L	08/09/10	7900	2400	12	130		1.9	<1.0	93	60	62	10	<1.0		<1.0	<1.0		<1.0	3.0	<1.0
W-10	UG/L	11/08/10	7700	2900	45	160	140	6.4	<1.0	<10	180	56	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	2.6	1.4
W-10	UG/L	02/08/11	11000	2600	100	160	140	28	<1.0	<10	150	61	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0
W-10	UG/L	04/21/11	12000	4900	97	240	190	38	<1.0	250	150	65	15	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	12	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-10	UG/L	09/01/11	8200	2900	2.2	120	44	1.1	<1.0	140	97	31	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0
W-10	UG/L	11/16/11	8800	840	3.9	190	92	1.1	<1.0	<10	94	49	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	02/08/12	10000	3100	5.5	230	150	2.9	<1.0	<10	130	73	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0
W-10	UG/L	05/10/12	1000	15	<0.50	1.4	1.2	<0.50	<1.0	<10	21	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/09/06	5200	99	12	74	240	37	<5	<50	<5	73	40	<2		<2	18		<2	<2	<5
W-11	UG/L	11/09/06	12000	96	7.8	54	140	21	<5	<50	<5	60	34	<2		<2	18		<2	<2	<5
W-11	UG/L	02/09/07	8000	95	14	78	280	27	<10	<100	<10	56	28	<4		<4	15		<4	<4	<10
W-11	UG/L	05/09/07	540	45	1.6	19	47	3.1	<5	<50	0.68	9	4.4	<2		0.41	18		<2	<2	0.96
W-11	UG/L	08/08/07	<1100	700	3.7	36	11	7.1	<5	<50	0.81	15	8.6	<2		<2	9.9		<2	0.29	1.1
W-11	UG/L	11/08/07	460	61	1.2	14	37	13	<0.32	<4.9	1	35	17	<0.32		<0.27	10		<0.27	<0.28	<0.3
W-11	UG/L	12/08/10	77000	150	51	260	2300	690	17	43	48	1300	800	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0
W-11	UG/L	02/04/11	10000	100	1.2	23	100	16	<1.0	<10	7.6	100	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	04/15/11	6300	410	15	50	390	18	<1.0	<10	3.4	83	280	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	08/29/11	10000	560	2.2	57	640	14	<1.0	<10	<1.0	100	190	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/14/11	10000	620	3.0	100	510	7.5	<1.0	<10	6.0	130	240	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	02/08/12	2900	12	<0.50	6.2	50	0.80	<1.0	<10	2.7	24	39	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.90	<1.0
W-11	UG/L	05/10/12	1800	8.4	<0.50	3.1	7.3	0.80	<1.0	<10	1.7	4.6	10	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.50	<1.0
W-12	UG/L	11/08/06	1400	<2	<2	<2	<2	<2	<5	55	<5	<2	<2	<2		<2	5.4		<2	<2	<5
W-12	UG/L	02/07/07	4800	<2	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	6.8		<2	<2	<5
W-12	UG/L	05/09/07	220	<2	<2	<2	<2	<2	<5	40	<5	<2	<2	<2		0.31	4.3		<2	0.37	1.1
W-12	UG/L	08/08/07	1100	<2	<2	0.56	<2	<2	0.36	40	<5	<2	<2	<2		<2	3.1		<2	<2	0.85
W-12	UG/L	11/06/07	1500	0.37	<0.36	0.97	<0.6	<0.3	1.2	58	0.66	<0.23	<0.26	<0.32		<0.27	2.6		<0.27	0.42	0.47
W-12	UG/L	02/08/08	410	0.94	<2	3	<2	<2	0.82	54	2.5	<2	<2	<2		<2	1.8		<2	0.45	<5
W-12	UG/L	01/20/09	620	<2	<2	0.69	<2	<2	<5	32	<5	<2	<2	<2		0.48	5.4		<2	<2	2.4
W-12	UG/L	04/22/09	1100	<2	<2	2.1	<2	<2	0.33	30	8.2	0.26	<2	<2		<2	3.7		<2	<2	1.5
W-12	UG/L	03/04/10	400	<0.50	<0.50	2.1	<2	<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	05/12/10	610	<0.50	<0.50	3.0	<2	<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	08/05/10	650	<0.50	<0.50	3.5	<2	<0.50	<1.0	<10	2.8	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	11/04/10	530	<0.50	<0.50	1.4	<1.0	<0.50	<1.0	<10	1.7	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	02/03/11	310	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	04/19/11	220	<0.50	<0.50	0.57	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	2.1		<1.0	<0.50	2.7
W-12	UG/L	08/25/11	360	<0.50	<0.50	1.3	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	11/14/11	63	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.2		<1.0	<0.50	<1.0
W-12	UG/L	02/08/12	400	<0.50	<0.50	2.2	<1.0	<0.50	<1.0	<10	1.6	<1.0	<1.0	<1.0		<1.0	2.3		<1.0	<0.50	2.2
W-12	UG/L	05/09/12	450	<0.50	<0.50	0.59	<1.0	<0.50	<1.0	27	1.2	<1.0	<1.0	<1.0		<1.0	1.4		<1.0	<0.50	1.2
W-14A	UG/L	02/12/08	42	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	2.3		1.1	9		0.46	0.37	<5
W-14A	UG/L	01/13/09	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-14A	UG/L	04/21/09	54	<2	<2	<2	<2	<2	0.47	8.1	<5	<2	<2	1.3		0.86	8.7		0.44	0.4	<5
W-14A	UG/L	03/01/10	<50	<0.50	<0.50	<0.50	<2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-14A	UG/L	05/10/10	<50	<0.50	<0.50	<0.50	<2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0
W-14A	UG/L	08/02/10	<50	<0.50	<0.50	<0.50	<2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.4		<1.0	<0.50	<1.0
W-14A	UG/L	11/01/10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-14A	UG/L	01/31/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-14A	UG/L	04/04/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-14A	UG/L	08/22/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.8	1.0		5.2	<1.0	<1.0
W-14A	UG/L	11/07/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	2.8		<1.0	<0.50	<1.0
W-14A	UG/L	01/30/12	200	1.5	<0.50	38	<1.0	<0.50	<1.0	<10	<1.0	1.1	<1.0	<1.0		3.2	10		1.4	<1.0	<0.50
W-14A	UG/L	05/01/12	390	41	<0.50	9.5	1.3	2.7	2.9	<10	<1.0	1.2	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-14B	UG/L	02/12/08	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.72		<2	0.83		<2	<2	<5
W-14B	UG/L	01/13/09	170	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	8.4		<2	4.8		<2	<2	<5
W-14B	UG/L	04/21/09	65	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	19		2.6	9.6		2.2	0.45	<5
W-14B	UG/L	03/01/10	99	<0.50	<0.50	<0.50	<2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	5.6		<1.0	<0.50	<1.0
W-14B	UG/L	05/10/10	99	<0.50	<0.50	<0.50	<2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	1.2		1.1	6.2		<1.0	<0.50	<1.0
W-14B	UG/L	08/02/10	55	<0.50	<0.50	<0.50	<2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	<1.0
W-14B	UG/L	11/01/10	88	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.0		45	10		14	1.2	<0.50
W-14B	UG/L	01/31/11	65	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		9.7	2.0		3.1	<1.0	<0.50
W-14B	UG/L	04/04/11	<50	<0.50	1.8	<0.50	<1.0	<0.50	<1.0	48	<1.0	<1.0	<1.0	15		99	13		34	2.9	0.53
W-14B	UG/L	08/22/11	200	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	28		130	9.8		53	3.2	0.98
W-14B	UG/L	11/07/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.1	<1.0		1.8	<1.0	<0.50
W-14B	UG/L	01/30/12	220	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	22		100	12		55	3.1	<0.50
W-14B	UG/L	05/01/12	150	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	69	<1.0	<1.0	<1.0								

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerline Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-14C	UG/L	01/14/09	120	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		8.8	34		3.4	<2	<5
W-14C	UG/L	04/21/09	67	1.5	<2	<2	<2	<2	<5	10	<5	<2	<2	<2		4.5	23		2.1	<2	<5
W-14C	UG/L	03/01/10	300	1.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.8	34		2.4	<0.50	<1.0
W-14C	UG/L	05/10/10	120	0.58	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	13		<1.0	<0.50	<1.0
W-14C	UG/L	08/02/10	77	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		4.6	35		2.4	<0.50	<1.0
W-14C	UG/L	11/01/10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	01/31/11	60	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.8	1.1	9.9	3.0	<1.0	<0.50	<1.0
W-14C	UG/L	04/04/11	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	27	<1.0	<1.0	<1.0	<1.0	24	3.9	30	16	3.1	<0.50	<1.0
W-14C	UG/L	08/22/11	290	0.73	<0.50	<0.50	<1.0	<0.50	<1.0	22	<1.0	<1.0	<1.0	<1.0	21	2.3	26	12	2.2	<0.50	<1.0
W-14C	UG/L	11/07/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	01/30/12	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	5.3	2.2	<1.0	<0.50	<1.0
W-14C	UG/L	05/01/12	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	02/11/08	2700	620	4.9	5.1	11	<20	650	120	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15A	UG/L	01/14/09	230	7.4	<2	<2	<2	<2	190	170	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15A	UG/L	04/24/09	530	8.4	<4	<4	<4	<4	220	220	<10	<4	<4	<4		<4	<4		<4	<4	<10
W-15A	UG/L	03/02/10	240	0.93	<0.50	<0.50		<0.50	44	94	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	05/10/10	260	1.5	<0.50	<0.50		<0.50	85	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	08/02/10	310	0.54	<0.50	<0.50		<0.50	71	180	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	11/01/10	61	<0.50	<0.50	<0.50	<1.0	<0.50	2.5	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	11/01/10	74	0.66	<0.50	<0.50	1.0	<0.50	6.8	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	02/01/11	14000	1400	610	400	1800	400	260	390	64	490	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
W-15A	UG/L	04/05/11	22000	<0.50	<0.50	<0.50	<1.0	<0.50	450	<10	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	02/02/12	62000	4400	2400	2400	9900	2300	930	<10	4.6	2900	880	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	05/02/12	2100000	3900	3600	3900	13000	4400	940	220	450	6200	1800	<10	<10	<10	<10	<10	<10	<5.0	<10
W-15B	UG/L	02/11/08	<1600	900	<20	<20	7	<20	20	110	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15B	UG/L	01/14/09	340	160	<2	<2	5	<2	20	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	04/24/09	63	6.2	<2	<2	<2	<2	5.8	98	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	03/02/10	220	3.8	<0.50	<0.50		<0.50	5.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	05/11/10	230	20	<0.50	<0.50		<0.50	17	36	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	08/03/10	250	14	<0.50	<0.50		<0.50	19	67	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	11/02/10	740	38	<0.50	<0.50	3.2	0.74	50	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	02/01/11	120	7.0	1.7	0.55	4.0	1.4	22	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	04/05/11	1500	<0.50	66	18	120	64	130	<10	6.3	16	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	08/23/11	1100	110	34	15	100	29	200	220	<1.0	14	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	08/23/11	1400	120	40	17	110	30	260	210	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	11/10/11	250	17	5.4	2.8	17	3.9	55	<10	<1.0	2.4	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	02/02/12	280	35	14	4.4	31	18	100	80	<1.0	2.3	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	05/02/12	780	27	2.6	3.1	18	6.3	200	160	<1.0	4.4	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	02/11/08	<50	0.94	0.57	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	1.1		0.45	0.35	0.34
W-15C	UG/L	01/15/09	29	1.1	<2	<2	<2	<2	<5	27	<5	<2	<2	<2		<2	5.7		1.2	0.86	0.9
W-15C	UG/L	04/24/09	43	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	1		<2	<2	<5
W-15C	UG/L	03/02/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.4		<1.0	<0.50	<1.0
W-15C	UG/L	05/11/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-15C	UG/L	08/03/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	20	<1.0	<1.0	<1.0	<1.0		<1.0	4.7		1.0	0.54	1.5
W-15C	UG/L	11/02/10	70	<0.50	<0.50	<0.50	<1.0	<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	02/01/11	94	1.6	0.85	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	04/05/11	120	10	4.8	1.9	20	2.6	4.2	<10	1.1	<1.0	<1.0	<1.0	4.6	<1.0	6.6	1.5	1.4	<0.50	1.8
W-15C	UG/L	08/23/11	89	9.5	3.5	1.4	13	2.7	5.2	<10	<1.0	1.8	<1.0	<1.0	5.5	<1.0	6.5	1.6	<1.0	<0.50	<1.0
W-15C	UG/L	11/08/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	01/31/12	53	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	5.8	1.5	<1.0	<0.50	<1.0
W-15C	UG/L	05/02/12	60	0.64	0.67	1.4	6.4	1.3	<1.0	<10	<1.0	3.2	1.2	<1.0	1.3	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	11/09/07	260	41	<0.36	<0.25	<0.6	<0.3	<0.32	30	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		2.6	<0.28	16
W-16A	UG/L	02/06/08	310	40	<2	<2	<2	<2	<5	34	<5	<2	0.63	<2		0.88	<2		2.8	<2	14
W-16A	UG/L	01/21/09	290	30	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		2.5	<2	7.2
W-16A	UG/L	04/27/09	410	34	<2	<2	<2	<2	<5	20	<5	<2	0.27	<2		0.54	<2		1.8	<2	17
W-16A	UG/L	03/05/10	220	4.2	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	2.9
W-16A	UG/L	05/14/10	110	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	08/09/10	120	0.93	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	11/05/10	90	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	02/07/11	320	12	<0.50	<0.50	<1.0	&													

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerline Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17C	UG/L	08/05/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	11/03/10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	02/02/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	04/20/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	08/24/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	11/09/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	02/07/12	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	05/04/12	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-2	UG/L	11/01/89		78	6.5	6.5								<0.5A		<0.5A			4 3A	<0.5A	75A
W-2	UG/L	03/01/90		62	<0.5	<0.5								<0.5		<1			<0.5	<0.5	<2
W-2	UG/L	04/01/90		83	26	4								<2.5		<5	13		3	<2.5	5.9
W-2	UG/L	12/18/96	560	56	<2	<2			<2		<2	<2	<2	<2		<2	13		<2	<2	11
W-2	UG/L	01/14/98	700	85	<5	<5			<5		<10	<5	<5	<5		<5	17		<5	<5	27
W-2	UG/L	08/20/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3	UG/L	11/01/89		19	2.6	7.6								<0.5		<0.5			2 5A	<0.5	7.1A
W-3	UG/L	01/01/90		<0.5	<0.5	<0.5								<0.5		<1			1	<0.5	<2
W-3	UG/L	03/01/90		5 3	4.5	<0.5								<0.5		<1			0 5	<0.5	<2
W-3	UG/L	04/01/90		3.4	4.5	<1								<0.5		<1	<5		<0.5	<0.5	<2
W-3	UG/L	12/18/96	1300	590	<25	<25			<10		<25	<25	<25	<25		<25	<25		<25	<25	<50
W-3	UG/L	01/13/98	2200	280	<5	<5			<5		<10	<5	<5	<5		<5	<5		6	<5	51
W-3	UG/L	08/20/98	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	01/13/98	4300000	150000	<6000	35000			<200000												
W-3A	UG/L	08/20/98	1100	220	<25	33			440		350	<25	<25	<25		<25	<25		<25	<25	<50
W-3A	UG/L	01/28/99	690	160	<50	<50			340		240	<50	<50	<50		<50	<50		<50	<50	<100
W-3A	UG/L	07/19/99	5400	120	<20	<20			380		<200	37	<20	<20		<20	<20		<20	<10	<10
W-3A	UG/L	01/13/00	14000	140	<10	<10			210		<100	<10	<10	<10		<10	<10		<10	<5	7
W-3A	UG/L	08/04/00	3400	170	<20	8.4			220		<50	2	2	<2		<2	<20		<20	<1	5
W-3A	UG/L	02/08/01	2700	34	<1	2.9			12		63	13	4.4	<1		<1	<1		<1	<0.5	1.7
W-3A	UG/L	07/26/01	3400	42	<1	1.7			6 2		11	15	<1	<1		<1	<1		<1	<0.5	27
W-3A	UG/L	05/06/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	09/25/02	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	02/16/06	306	<1	<5	<5	<5	<5	6 2	16	<5	18	16	<5		<5	<5		<5	<5	<5
W-3A	UG/L	08/03/06	39000	<2	<2	<2	<2	<2	9	<50	38	<2	<2	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/09/06	8100	<2	<2	<2	<2	<2	11	<50	37	6.4	9.5	<2		<2	<2		<2	<2	<5
W-3A	UG/L	02/08/07	1400	<2	<2	<2	<2	<2	8.4	<50	30	3.9	6.1	<2		<2	<2		<2	<2	<5
W-3A	UG/L	05/10/07	14000	0.66	<2	<2	<2	<2	7 8	23	16	2.3	3.6	<2		<2	<2		<2	<2	<5
W-3A	UG/L	08/09/07	1900	0.79	<2	<2	<2	0.34	9 8	26	14	2	2.3	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/07/07	1500	0.62	<0.36	<0.25	<0.6	<0.3	9.7	26	<0.41	0.64	0.67	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-3A	UG/L	02/07/08	180	<2	<2	<2	<2	<2	10	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-4	UG/L	03/01/90		120	<0.5	19								<0.5		<0.5	3.2		8 3	<0.5	<0.5
W-4	UG/L	04/01/90		28	1.4	4.8								<1		<1	0.81		2 2	<1	4.3
W-4	UG/L	12/18/96	420	80	<5	<5			<10		<5	<5	<5	<5		<5	<5		<5	<5	<10
W-4	UG/L	01/14/98	920	120	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-4	UG/L	08/20/98	500	57	<5	<5			18		<10	<5	<5	<5		<5	<5		<5	<5	9.8
W-4	UG/L	01/29/99	460	55	<5	<5			20		<10	<5	<5	<5		<5	<5		<5	<5	11
W-4	UG/L	07/19/99	710	72	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-4	UG/L	01/13/00	660	49	<1	<1			<1		<10	<1	<1	<1		<1	1.3		<1	<0.5	13
W-4	UG/L	08/03/00	<500	47	<1	<1			<10		<10	<1	<1	<1		1.2	<1		<1	<0.5	12
W-4	UG/L	02/08/01	<500	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.1	0.67	7
W-4	UG/L	07/26/01	320	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1	<0.5	<0.5
W-4	UG/L	05/08/02	250	33	<1	<1			<1	60000	<10	<1	<1	<1		2	<1		13	<0.5	5.2
W-4	UG/L	09/25/02	290	62	<1	<1			<1	45000	<1	<1	<1	<1		3.8	<1		2	<0.5	<0.5
W-4	UG/L	07/01/04	350	30	2.6	1.9	0.66	<0.5	<5	<100	<5	<5	<5	<5		1J	3J		2J	<5	11
W-4	UG/L	10/06/05	350	31	<1	<1	<1	<1	<1	47	<10	<1	<1	<1		<1	6.4		1.7	<0.5	1.3
W-4	UG/L	02/15/06	501	43	<5	<5	<5	<5	<1	38	<5	<5	<5	<5		<5	2.8		2 5	<5	2.4
W-4	UG/L	08/03/06	2800	3 5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.5		<2	<2	<5
W-4	UG/L	11/09/06	230	6.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	5.1		<2	<2	<5
W-4	UG/L	02/08/07	200	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.7		<2	<2	<5
W-4	UG/L	05/10/07	170	1 5	<2	<2	<2	<2	1.6	30	<5	<2	<2	<2		<2	3.8		<2	<2	1
W-4	UG/L	08/09/07	280	1	<2	<2	<2	<2	2	18	<5	<2	<2	<2		<2	3.2		<2	<2	0 59
W-4	UG/L	11/07/07	180	1 9	<0.36	<0.25	<0.6	<0.3	1.4	22	<0.41	<0.23	<0.26	<0.32		<0.27	3.6		0.36	<0.28	<0.3
W-4	UG/L	02/07/08	210	4.4	<2	<2	<2	<2	<5	55	<1	<2	<2	<2		<1	4.4		<2	<2	<5
W-4	UG/L	02/07/08	250	3 9	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	4		<2	<2	<5

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-8	UG/L	09/01/11	2000	0.57	0.77	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	11/10/11	110	<0.50	0.64	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	02/07/12	90	<0.50	0.73	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	05/10/12	180	<0.50	0.87	<0.50	<1.0	<0.50	<1.0	<10	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/07/06	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	02/06/07	67	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	05/09/07	50	<2	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		<2	2		<2	<2	<5
W-9	UG/L	08/07/07	38	<2	<2	<2	<2	<2	<5	22	<5	<2	<2	<2		0.31	3		<2	<2	<5
W-9	UG/L	11/06/07	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	19	<0.41	<0.23	<0.26	<0.32		0.31	3.8		<0.27	<0.28	<0.3
W-9	UG/L	02/05/08	<50	<2	<2	<2	<2	<2	<5	23	0.5	<2	<2	<2		0.3	3.4		<2	<2	<5
W-9	UG/L	01/15/09	46	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	3.2		<2	<2	<5
W-9	UG/L	04/23/09	36	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	2.6		<2	<2	<5
W-9	UG/L	03/03/10	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0
W-9	UG/L	05/12/10	80	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	2.8		<1.0	<0.50	<1.0
W-9	UG/L	08/04/10	67	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.0		<1.0	<0.50	<1.0
W-9	UG/L	11/03/10	87	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	02/02/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	04/14/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	08/24/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/10/11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	02/08/12	59	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	05/09/12	89	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	<1.0

NOTES:
PCE - Tetrachloroethylene
TCE - Trichloroethylene
c1,2-DCE - cis-1,2-Dichloroethene
t1,2-DCE - trans-1,2-Dichloroethene
1,1-DCE - 1,1-Dichloroethene
1,2-DCA - 1,2-Dichloroethane
1,3,5-TMB - 1,3,5-Trimethylbenzene
1,2,4-TMB - 1,2,4-Trimethylbenzene
VC - Vinyl Chloride
B- Benzene
T - Toluene
E - Ethylbenzene
X - Xylenes, total
nBUT - n-Butylbenzene
sBUT - sec-Butylbenzene
tBUT - tert-Butylbenzene
nPRO - n-Propylbenzene
1,1 DCA - 1,1-Dichloroethane
ISO-P - Isopropylbenzene
MC - Methylene Chloride
NAP - Naphthalene
TRIM - Trichlorofluoromethane
PMXY - p/m-Xylenes
OXYL - o-Xylene
DIPE - Diisopropyl Ether (DIPE)
MTBE - Methyl-tert-Butyl Ether (MTBE)
TBA - tert-Butyl Alcohol (TBA)
ND - Not Detected above laboratory detection limits
UG/L - Micrograms per litre
NA - Information not available

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-104A	12/18/2009	7.31	5.31	3
MW-104A	3/3/2010	6.93	1.65	66
MW-104A	5/11/2010	8.06	NA	19
MW-104A	8/4/2010	7.65	2.32	205
MW-104A	11/3/2010	8.06	2.00	131
MW-104A	2/2/2011	8.46	3.05	136.4
MW-104A	4/14/2011	8.10	2.85	128.5
MW-104A	8/24/2011	7.53	4.47	19.6
MW-104A	11/10/2011	7.38	5.47	67
MW-104A	2/9/2012	8.79	2.42	-14.5
MW-104A	5/9/2012	8.18	4.36	-39.3
MW-106A	12/17/2009	7.25	7.29	-112
MW-106A	3/5/2010	6.73	4.71	116
MW-106A	5/13/2010	8.06	7.90	-38
MW-106A	8/6/2010	8.05	4.52	210
MW-106A	11/4/2010	8.23	3.09	77
MW-106A	2/3/2011	NA	NA	NA
MW-106A	4/19/2011	NA	NA	NA
MW-106A	8/25/2011	7.67	2.98	-28.1
MW-106A	11/14/2011	7.03	4.74	33
MW-106A	2/3/2012	NA	NA	NA
MW-107A	12/17/2009	7.20	6.99	-276
MW-107A	3/5/2010	8.70	1.81	-307
MW-107A	5/13/2010	8.30	NA	-370
MW-107A	8/6/2010	8.10	3.25	-280
MW-107A	11/4/2010	8.16	2.04	-245
MW-107A	2/3/2011	8.49	3.42	-338
MW-107A	4/19/2011	8.02	1.93	-276.8
MW-107A	8/25/2011	7.82	2.68	-216.7
MW-107A	11/14/2011	7.19	3.73	-161.3
MW-107A	1/31/2012	8.88	2.6	-240
MW-107A	5/8/2012	8.40	2.34	-273.6
MW-503B	12/15/2009	6.92	7.78	-137
MW-503B	3/8/2010	7.33	3.38	-96
MW-503B	5/17/2010	8.18	1.79	-69
MW-503B	8/9/2010	7.60	2.72	147
MW-503B	11/8/2010	7.62	2.93	7

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-503B	2/4/2011	7.96	2.16	-46
MW-503B	4/15/2011	7.61	1.74	-46.4
MW-503B	8/29/2011	7.50	2.57	-96.1
MW-503B	11/16/2011	6.76	3.01	-41.3
MW-503B	1/31/2012	8.50	3.06	-150.6
MW-503B	5/8/2012	7.73	2.46	-145.0
W-1	12/15/2009	7.62	7.10	-39
W-1	3/5/2010	7.51	3.15	-111
W-1	5/13/2010	8.07	2.02	-197
W-1	8/6/2010	7.52	3.22	-22
W-1	11/5/2010	8.13	2.75	38
W-1	2/4/2011	8.18	4.84	-63.7
W-1	4/14/2011	7.65	1.94	37.3
W-1	8/26/2011	7.47	3.16	-86
W-1	11/14/2011	7.08	2.9	-75.9
W-1	2/6/2012	7.99	2.87	-79.4
W-1	5/7/2012	7.85	3.03	-62.4
W-4	12/15/2009	8.27	9.40	21
W-4	3/5/2010	7.09	3.41	-101
W-4	5/13/2010	8.00	3.87	-66
W-4	8/6/2010	7.74	3.48	16
W-4	11/4/2010	7.75	3.50	45
W-4	2/8/2011	7.67	5.53	-3.5
W-4	4/14/2011	7.79	4.47	107.8
W-4	8/25/2011	7.54	4.75	-92.5
W-4	11/14/2011	6.88	4.49	-47.3
W-4	2/6/2012	8.36	3.7	-53.2
W-4	5/7/2012	8.10	3.24	-54
W-8	12/18/2009	10.11	7.07	-230
W-9	3/3/2010	7.53	5.66	69
W-9	5/12/2010	8.07	7.15	-175
W-9	8/4/2010	7.36	3.36	-60
W-9	4/5/2011	7.71	4.07	82.3
W-9	8/24/2011	7.62	4.9	-4.9
W-9	11/10/2011	NA	NA	NA
W-9	2/8/2012	8.32	3.95	61.8
W-9	5/9/2012	7.77	3.69	-49.5

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-10	12/18/2009	7.21	6.89	-97
W-10	3/8/2010	NA	NA	NA
W-10	5/17/2010	NA	NA	NA
W-10	8/9/2010	NA	NA	NA
W-10	11/3/2010	7.53	3.39	-10
W-10	11/8/2010	NA	NA	NA
W-10	2/2/2011	7.83	3.57	41.6
W-10	2/8/2011	7.28	5.51	-103
W-10	4/15/2011	NA	NA	NA
W-10	8/29/2011	7.14	2.7	-130.2
W-10	11/10/2011	NA	NA	NA
W-10	2/8/2012	NA	NA	NA
W-11	12/8/2010	NA	NA	NA
W-11	2/4/2011	7.67	5.62	-119
W-11	4/15/2011	7.58	1.68	-77
W-11	8/29/2011	7.35	2.2	-125.7
W-11	11/14/2011	6.93	2.63	-148.6
W-11	2/8/2012	8.38	3.3	45.6
W-11	5/10/2012	7.84	2.75	-76.5
W-12	12/18/2009	6.99	6.96	0
W-12	3/4/2010	7.53	3.15	-63
W-12	5/12/2010	7.87	NA	-180
W-12	8/5/2010	7.61	2.65	-100
W-12	11/4/2010	7.88	2.64	7
W-12	2/3/2011	8.28	2.85	-99
W-12	4/19/2011	7.77	2.10	15.2
W-12	8/25/2011	7.50	2.78	-58.5
W-12	11/14/2011	6.93	3.77	-34.7
W-12	2/8/2012	8.13	2.57	-113
W-12	5/9/2012	7.89	3.22	-74.5
W-14A	12/15/2009	7.65	7.76	-23
W-14A	3/1/2010	6.61	4.09	58
W-14A	5/10/2010	8.63	2.74	2
W-14A	8/2/2010	8.02	3.12	145
W-14A	11/1/2010	8.30	2.87	46
W-14A	1/31/2011	8.30	13.16	185.4
W-14A	4/4/2011	8.29	4.81	89.6

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14A	8/22/2011	7.87	10.15	22.8
W-14A	11/7/2011	7.40	5.23	151.6
W-14A	1/30/2012	8.06	1.48	2.6
W-14B	12/15/2009	8.37	7.79	97
W-14B	3/1/2010	7.72	2.60	-5
W-14B	5/10/2010	8.43	3.00	-172
W-14B	8/2/2010	7.80	4.60	33
W-14B	11/1/2010	8.13	3.37	37
W-14B	1/31/2011	8.17	19.82	194
W-14B	4/4/2011	8.27	5.95	82.6
W-14B	8/22/2011	7.95	7.9	22.7
W-14B	11/7/2011	7.22	4.92	67.8
W-14B	1/30/2012	8.70	2.9	-133.7
W-14C	12/15/2009	8.24	8.57	77
W-14C	3/1/2010	7.22	2.43	188
W-14C	5/10/2010	8.17	0.80	-77
W-14C	8/2/2010	7.60	3.55	128
W-14C	11/1/2010	7.89	3.15	49
W-14C	1/31/2011	7.88	10.85	188
W-14C	4/4/2011	7.98	3.27	51.3
W-14C	8/22/2011	7.76	4.24	-3.7
W-14C	11/7/2011	7.33	7.47	59.2
W-14C	1/30/2012	8.75	3.65	-65.2
W-14C	5/1/2012	8.18	4.07	41.5
W-15A	12/14/2009	7.31	9.15	85
W-15A	3/2/2010	7.12	2.67	202
W-15A	5/10/2010	7.90	NA	-228
W-15A	8/2/2010	7.39	1.96	-145
W-15A	11/1/2010	7.67	2.85	32
W-15A	2/1/2011	7.89	2.05	-33
W-15A	4/5/2011	8.00	2.60	-81.7
W-15A	8/23/2011	7.47	4.96	-148.7
W-15A	11/8/2011	(FPPH)	(FPPH)	(FPPH)
W-15A	2/2/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	5/2/2012	8.06	3.26	-26.4
W-15B	12/14/2009	7.39	7.44	-58
W-15B	3/2/2010	7.61	2.39	94

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-15B	5/11/2010	8.09	4.36	-15
W-15B	8/3/2010	7.74	3.42	107
W-15B	11/2/2010	8.06	3.18	40
W-15B	2/1/2011	8.15	4.58	286
W-15B	4/5/2011	8.10	2.92	62.4
W-15B	8/23/2011	7.56	3.85	-2.1
W-15B	11/10/2011	7.10	3.07	28.3
W-15B	2/2/2012	8.17	2.31	-69.2
W-15B	5/2/2012	8.00	3.41	-11
W-15C	12/14/2009	7.16	7.18	-53
W-15C	3/2/2010	7.33	2.27	148
W-15C	5/11/2010	8.16	4.73	-21
W-15C	8/3/2010	7.60	2.72	108
W-15C	11/2/2010	7.55	2.40	62
W-15C	2/1/2011	7.81	4.58	123.7
W-15C	4/5/2011	7.92	2.85	109
W-15C	8/23/2011	7.54	4.32	-2.4
W-15C	11/8/2011	7.32	6	119.4
W-15C	1/31/2012	8.72	3.11	-60.3
W-15C	5/2/2012	8.00	3.5	6
W-16A	12/16/2009	7.62	6.90	-62
W-16A	3/5/2010	7.03	3.47	-5
W-16A	5/14/2010	8.28	2.23	-54
W-16A	8/9/2010	7.98	2.65	106
W-16A	11/5/2010	8.03	6.15	48
W-16A	2/7/2011	7.82	4.09	249
W-16A	4/18/2011	7.88	4.00	94.9
W-16A	8/26/2011	7.73	4.11	-73.4
W-16A	11/8/2011	7.07	4.36	77.6
W-16A	2/3/2012	8.49	3.67	-70.0
W-16A	5/3/2012	7.86	4.09	50.0
W-16B	12/16/2009	8.23	7.61	-184
W-16B	3/8/2010	8.15	3.20	-236
W-16B	5/14/2010	8.62	0.77	-310
W-16B	8/9/2010	8.01	2.88	-217
W-16B	11/5/2010	8.30	2.68	-119
W-16B	2/7/2011	8.12	3.54	-297

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16B	4/18/2011	8.47	2.56	-247
W-16B	8/26/2011	8.01	2.72	-217.4
W-16B	11/8/2011	6.89	8.68	-63.8
W-16B	2/3/2012	9.21	2.55	-206.7
W-16B	5/3/2012	8.74	3.06	-194.3
W-16C	12/16/2009	8.15	7.12	-206
W-16C	3/8/2010	8.33	3.64	-237
W-16C	5/14/2010	8.68	NA	-295
W-16C	8/9/2010	8.02	2.57	-165
W-16C	11/5/2010	8.24	2.37	-72
W-16C	2/7/2011	8.03	4.34	-285
W-16C	4/18/2011	8.55	2.88	-249.5
W-16C	8/26/2011	7.81	2.71	-223.2
W-16C	11/9/2011	7.57	6.94	-185
W-16C	2/3/2012	8.84	2.51	-253.2
W-16C	5/3/2012	8.52	3.00	-205.8
W-17A	12/18/2009	8.02	7.10	30
W-17A	3/3/2010	6.67	5.41	74
W-17A	5/12/2010	8.25	0.88	-40
W-17A	8/4/2010	7.78	2.35	62
W-17A	11/3/2010	8.17	2.95	76
W-17A	2/2/2011	8.36	5.96	349
W-17A	4/20/2011	7.85	3.51	-5.8
W-17A	8/24/2011	7.85	3.23	2.6
W-17A	11/9/2011	7.19	4.78	-13
W-17A	2/7/2012	8.46	2.87	-20
W-17A	5/4/2012	8.20	3.45	-43.8
W-17B	12/18/2009	8.49	7.18	-173
W-17B	3/3/2010	7.87	4.80	-197
W-17B	5/12/2010	8.35	NA	-313
W-17B	8/5/2010	7.96	2.31	-189
W-17B	11/3/2010	8.09	2.56	-25
W-17B	2/2/2011	8.43	3.45	-269
W-17B	4/20/2011	8.11	3.32	-168.5
W-17B	8/24/2011	7.88	3.41	-153.7
W-17B	11/9/2011	7.52	2.94	-136.4
W-17B	2/7/2012	8.65	2.50	-174.3

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-17B	5/4/2012	8.40	2.87	-118.7
W-17C	12/18/2009	8.79	8.74	-177
W-17C	3/4/2010	7.96	5.90	-209
W-17C	5/12/2010	8.49	3.03	-322
W-17C	8/5/2010	8.01	2.64	-167
W-17C	11/3/2010	8.16	2.79	-120
W-17C	2/2/2011	8.47	3.96	-301
W-17C	4/20/2011	8.26	2.08	-223.7
W-17C	8/24/2011	7.94	3.12	-201.7
W-17C	11/9/2011	7.43	3.36	-159.7
W-17C	2/7/2012	8.80	2.73	-226.4
W-17C	5/4/2012	8.50	2.56	-168.5
EW-1	2/3/2011	7.90	6.61	-258
EW-1	4/13/2011	8.15	2.86	-210
EW-1	8/29/2011	7.62	2.74	-293
EW-1	11/16/2011	(FPPH)	(FPPH)	(FPPH)
EW-1	2/6/2012	(FPPH)	(FPPH)	(FPPH)
MW-701	2/4/2011	6.09	NA	NA
MW-701	4/11/2011	7.60	3.67	180.6
MW-701	8/30/2011	7.50	3.98	-31.2
MW-701	11/16/2011	6.90	2.93	25.9
MW-701	2/1/2012	8.18	4.3	-58.5
MW-701	5/11/2012	7.89	3.45	-8.8
MW-702	2/4/2011	6.04	NA	NA
MW-702	4/12/2011	7.70	3.29	103.1
MW-702	8/30/2011	7.34	3.23	-155.3
MW-702	11/16/2011	7.07	2.67	-172.7
MW-702	2/9/2012	7.89	4.73	-60.7
MW-702	5/11/2012	7.77	3.14	-99.9
MW-703	2/4/2011	6.25	NA	NA
MW-703	4/12/2011	7.57	3.53	132.4
MW-703	8/30/2011	7.30	4.2	-87.1
MW-703	11/17/2011	6.92	2.77	-98
MW-703	2/14/2012	8.11	4.07	-26.3
MW-703	5/11/2012	7.85	3.13	-72.6
MW-704	2/9/2011	6.08	NA	NA
MW-704	4/13/2011	7.46	4.60	134.6

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
Second Quarter 2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-704	8/31/2011	7.40	4.02	99.4
MW-704	11/17/2011	6.93	2.51	-148.8
MW-704	2/14/2012	7.80	4.2	-31.6
MW-704	5/14/2012	7.60	5.25	-30.0
MW-705	2/4/2011	6.01	NA	NA
MW-705	4/12/2011	7.79	3.40	127.6
MW-705	8/31/2011	7.78	3.7	-55.5
MW-705	11/17/2011	7.04	3.16	-130.7
MW-705	2/14/2012	8.12	4.09	-57.6
MW-705	5/14/2012	7.88	2.50	-65.0
MW-706	2/4/2011	6.21	NA	NA
MW-706	4/11/2011	7.99	4.02	158.7
MW-706	8/31/2011	7.76	3.03	-41.2
MW-706	11/18/2011	6.93	3.06	180.8
MW-706	2/14/2012	8.16	3.00	-52.7
MW-706	5/14/2012	7.87	2.77	-63.5
MW-707	2/4/2011	6.22	NA	NA
MW-707	4/8/2011	7.89	3.24	51.9
MW-707	9/1/2011	7.30	3.73	-9.4
MW-707	11/18/2011	6.89	2.8	11.3
MW-707	2/1/2012	8.19	3.1	-147
MW-707	5/15/2012	7.75	2.50	-72.6
MW-708	2/4/2011	5.99	NA	NA
MW-708	4/6/2011	7.84	3.03	-119.8
MW-708	9/1/2011	7.51	3.45	-147.2
MW-708	11/18/2011	7.00	3.56	-161.3
MW-708	2/10/2012	8.09	2.75	-140.2
MW-708	5/15/2012	7.79	2.36	-136.1
MW-709	2/4/2011	6.27	NA	NA
MW-709	4/6/2011	8.08	3.74	149.6
MW-709	9/1/2011	7.38	2.97	-37
MW-709	11/21/2011	6.76	2.97	148.5
MW-709	2/10/2012	8.08	2.61	-57.1
MW-709	5/16/2012	7.70	3.12	9.3
MW-710	2/8/2011	6.18	NA	NA
MW-710	4/7/2011	7.88	3.54	97.7
MW-710	9/2/2011	6.87	3.68	-10.2

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
Second Quarter 2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-710	11/21/2011	6.81	2.86	255.6
MW-710	2/1/2012	8.47	3.45	-64.8
MW-710	5/16/2012	7.80	4.04	21.5
MW-711	2/8/2011	5.99	NA	NA
MW-711	4/6/2011	7.91	3.39	-59.2
MW-711	9/2/2011	7.06	3.54	-99.8
MW-711	11/21/2011	6.87	2.95	-133.6
MW-711	2/10/2012	8.04	3.45	-96.7
MW-711	5/16/2012	7.73	2.37	-73.0
MW-712	2/7/2011	6.03	NA	NA
MW-712	4/7/2011	7.74	3.08	21.7
MW-712	9/2/2011	7.10	2.68	-59.7
MW-712	11/21/2011	6.90	2.65	-90.4
MW-712	2/13/2012	7.90	3.88	-83.5
MW-712	5/17/2012	7.71	2.80	-13.3
MW-713	2/7/2011	6.13	NA	NA
MW-713	4/8/2011	7.95	3.84	99.5
MW-713	9/2/2011	7.20	3.13	-51.4
MW-713	11/22/2011	6.98	3.07	-28.7
MW-713	2/13/2012	7.97	3.65	-77.7
MW-713	5/17/2012	7.70	3.11	-13.1
MW-714	2/8/2011	6.20	NA	NA
MW-714	4/7/2011	7.92	3.53	33.6
MW-714	9/2/2011	7.21	3.15	-63.4
MW-714	11/22/2011	6.96	2.77	-24.2
MW-714	2/13/2012	8.05	4.32	-70.5
MW-714	5/17/2012	4.60	3.00	-10.7
MW-715	2/14/2011	7.50	NA	NA
MW-715	4/8/2011	7.78	2.59	16.3
MW-715	9/2/2011	7.15	3.2	-89.8
MW-715	11/22/2011	6.90	2.73	-125.4
MW-715	2/1/2012	8.32	2.87	-174.2
MW-715	5/17/2012	4.20	2.58	-50.5

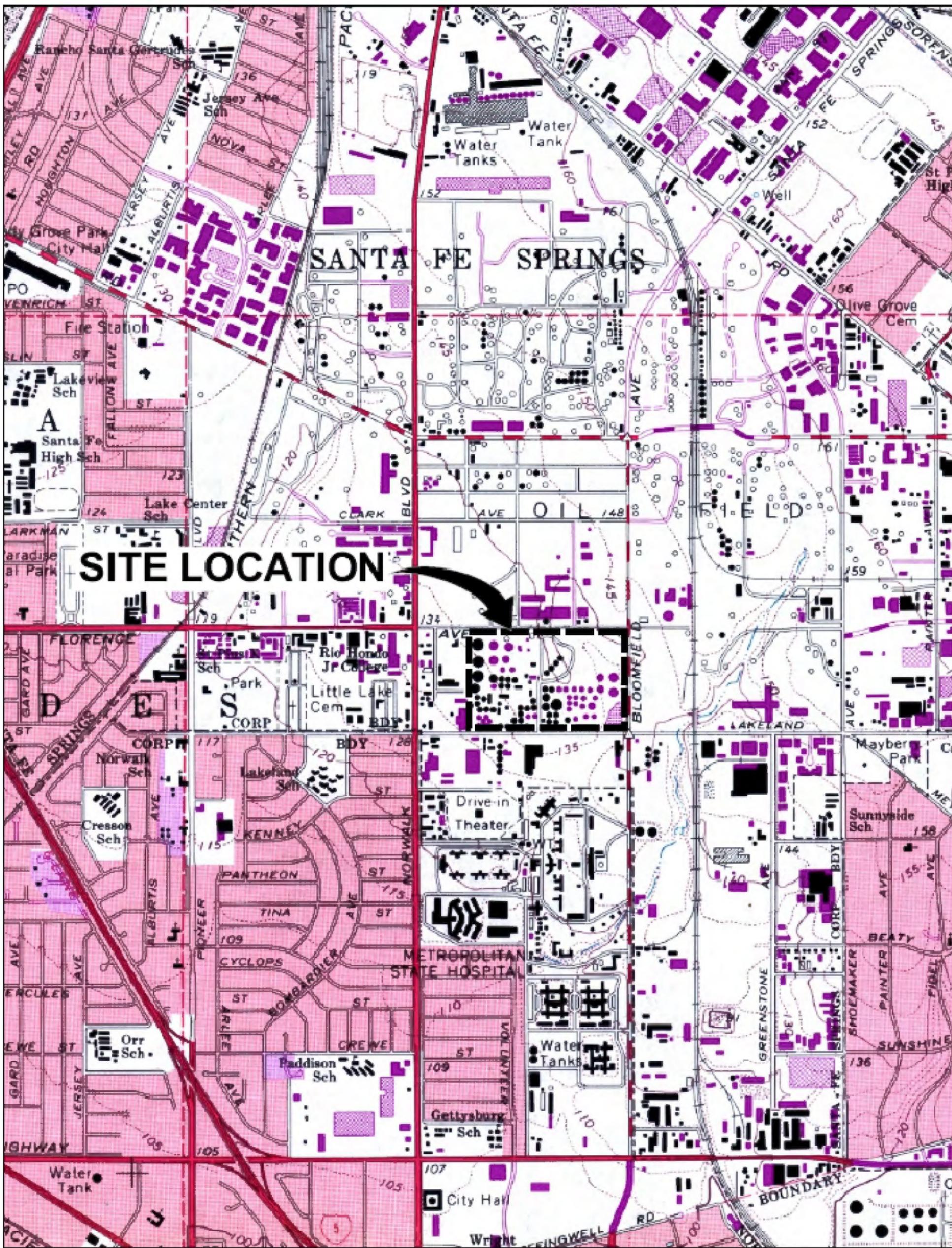
Notes:

DO dissolved oxygen
mg/L milligram(s) per liter

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
Second Quarter 2012

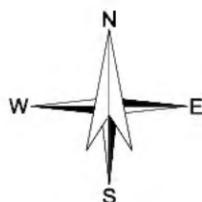
Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
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mV millivolts
 ORP oxidation-reduction potential
 SU standard units
 NA Not Available



SITE LOCATION

SOURCE OF BASE MAP
 U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



SCALE: NOT TO SCALE

FORMER POWERINE REFINERY
 12345 LAKELAND ROAD
 SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP



FIGURE
 1

DRAWN BY: RLM REVISION DATE: 5/15/12 REVISED BY: BER

FX-9: Wells

FX-9: Wells